

<400> 4908

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gcggtggctc agtgcttcct ggccgagaac gactgggaga tggaaagggc tctgaactcc 180
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attgatggat tagatctaaa caatctgtca gagagggtc gaggggtgtg ctccactta 420
gctttgtaca gcccgatgt gatatttcta caggaagtta ttccccata ttatagctac 480
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gctataatgt tgaagaaatc aagagtgaat ttaaaaagcc aagagattat tccttttcca 600
agtacaaaaa tgatgagaaa accttttatg tgtgcatgtg aacgtgtcag gaaatgagct 660
ttgccttaag acatcccaat tggngaaca ccanagggca tctgcgggaa cgaatgaatc 720
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<210> 4909

<211> 691

<212> DNA

<213> Homo sapiens

<400> 4909

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ctccgcattc tgcgtgattt gtgcaacaga gtccccacat gggcaccatt gaaaggatgg 180
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caaaaagaag atattacca cagtgcacag catgcactca gactatcagc ctttggccag 420
atttaciaag tgctggagat ggacccccctt ccatctagta agccttttca gaagtattcc 480

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tggtcagtta ctgataaaga aggtgctggg tcttcagctc taaagaggcc atttgaagat 540
 ggattagggg atgataaaga cccaacaag aagatgaaac gaaacttaag gaaaattctg 600
 gatagtaaag caatagacct tatgaatgca ctaatgaggc taaaatcaga tnangcctgg 660
 ggcttcagta taagctccta tctcantctg g 691

<210> 4910

<211> 831

<212> DNA

<213> Homo sapiens

<400> 4910

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 catttactct cttttttgta atgcactctg agcaatcctc caggcagatc ctatttacta 180
 agcttcaggc ttttgtccca ttttataatg cccaaacaca tggagaaaac attttgttgt 240
 ttttaaaaac aggtatggga tttctgatat aatcaatttt attgacttct tgggagttgt 300
 aatgatctgt gactcactgc ataatatgt agttttatag ggtggcacat caccctgtgt 360
 aaaacaactt taatgacctg aggactgatg agtacaggaa gtgaggttta tcatgagtag 420
 catttattaa gcatctgcta gaatcaaagc actgcattag ctactaaggt acaaagtaag 480
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 attactatgc atttttgaga ggatgaagaa ggcttcttgg agaaggttct gaaaagagat 660
 acggnattaa agagaaatag aaaagagcac tgacgaagca ctcaggatgg ctattcaagg 720
 gaattggggg attcacagca actggtgcac aancatcccc aaatgccaag aaaaatgggg 780
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<210> 4911

<211> 793

<212> DNA

<213> Homo sapiens

<400> 4911

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atcatctcca gaaccagcta gtcttcctgc agaagatatt agtgcaaact ccaatggccc 180
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acatgttggt tatattgtgc caccaactcc agaaaagagt atagtaggga tgaccaaggg 660
tcaaagtggg gtaaagaaga ctcatcatcc actgagtttt gtagaaaaac ngagaagcaa 720
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taaggnaagt tcc 793

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<210> 4912

<211> 760

<212> DNA

<213> Homo sapiens

<400> 4912

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tttaagacat gaattacatt taaaattaga atatggttaa tattaaataa taggcctttt 60
tctaggaagg cgaaggtagt taataatttg aatagataac agatgtgcaa gaaagtcaca 120
tttgttatgt atgtaggagt aaacgttcgg tggatcccct gtctttgtaa ctgaggtttag 180
agctagtgtg gttttgaggt ctactacac tttgaggaag gcagctttta attcagtgtt 240
tccttatgtg tgcgtacatt gcaactgctt acatgtaatt tatgtaatgc attcagtgtc 300

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cccttggttac ttgggagagg tggtagctaa agaacagttg agtataggtt tttctccatt 360
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 gaaactagct tataataact ggtttttact tccaatgcta tgaagtctct gcagggcttt 480
 tacagttttc gaagtccttt tatcactgtg atcttatctt gaggggagaa aaaactatca 540
 tagctctgag gcaagacttc gactttatan gtgctatcag ttccccgata cagggtcaga 600
 gtaaccata cagtattttg ggtcaggaag agaaagtggc catttacact gaatgagttg 660
 cattctgana atgtcctatc tcttaaactt agaatanatt tggaaagaca tttgatctta 720
 aaaccaaagt aantttaaga atgaagtggc atattacata 760

<210> 4913

<211> 728

<212> DNA

<213> Homo sapiens

<400> 4913

gcaagtacac ggagaataag ctgaaggcca tcaaagcccg gaatgagtac ttgctggctt 60
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 atcagtgttg tgacttaggc taccatgcaa gtctgaaccg ggctctacgc accttctct 180
 ctgctgagtt aaacctggaa cagtcgaagc atgagggtct ggatgccatc gagaatgcag 240
 tagaaaacct ggatgccacc agtgacaagc agcgcctcat ggagatgtac aacaacgtct 300
 tctgcccccc tatgaagttt gagtttcagc cccacatggg ggatatggct tcccagctct 360
 gtgcccagca gcctgtccag agtgagctgg tacagagatg ccaacaactg cagtctcgct 420
 tatccactct aaagattgaa aacgaagagg taaagaagac aatggaggcc accctgcaaa 480
 ccatccagga cattgtgact gtcgaggact ttgatgtgtc tgactgcttc cagtacaagc 540
 aactccatgg agtccgtcaa gtccacggtc tctgaaacct tcatgagcaa gccagcatt 600
 gctaagagga gagccaacca gcaagagaca gagcagtttt atttcacaaa aaatgaaaag 660
 agtacctgga ngggcaagga acctcatcac caagttacaa gcccaangca tgncttttct 720
 gcaaaaaa 728

<210> 4914

<211> 726

<212> DNA

<213> Homo sapiens

<400> 4914

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accaggaaac tgtcaaagtg caaatacaca gcagagcttc agaatatatc actgatgtcc 60
attcgaatga cctgtctaca ccacagatcc ttccatcaaa tgaagggtgtt aatccacgtt 120
tatcggcaag cctcctctaaa tcaggcaatt tgtggccagg attggcacca ccacacaaaa 180
aagctcagtc tgcattctcca aagagaaaaa aacagcacao gaaatacaga agtggttattt 240
cagacatatt tgatggaaca atcattagtt cagtgcagtg tctgacttgt gacagggtgt 300
ctgtaaccct cgagaccttt caagatctgt ccttgccaat tcctggcaag gaagaccttg 360
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catatgtccc acaagggtgg atagcttttt tcatggaata tgtgaagagg tttgttgtct 480
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tctttgccag agatgaacta aaagggtgaca atatgtacag ttgtgaaaaa tgcaaaaagt 600
tgagaaatgg agtgaagttt tgtaaagtac aaaactttcc ngagattttg tgcattccanc 660
ttaaaaagat tcagacatga actaatggtt tccaccaaaa tcagtaccaa gggtttcaatt 720
tccgnc 726
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<210> 4915

<211> 700

<212> DNA

<213> Homo sapiens

<400> 4915

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agtgtatcca aaatgccaac aaaggcacc acacaagttt aatgcagaga ttaaggaacc 120
gaggagagag agaccgggaa agggagagag aaagggaat gaggaggagt agtggtttgc 180
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gagcaggttc tcggagggac cgggatagag actttagaag acagctttcc atcgacacta 240
 ggcccttttag accagcctct gaagggaatc ctagcgatga tcctgagcct ttgccagcac 300
 atcggcaggc acttgagag aggcctttatc ctcgtgtaca agcaatgcaa ccagcatttg 360
 caagtaaaat cactggcatg ttgttgaat tatccccagc tcagctgctt ctccttctag 420
 caagtgagga ttctctgaga gcaagagtgg atgaggccat ggaactcatt attgcacatg 480
 gacgggaaaa tggagctgat agtatcctgg atcttggatt agtagactcc tcagaaaagg 540
 tacagcagga aaaccgaaag cgccatggct ctaatcgaag tgtagtagat atggatttag 600
 atgatacana tgatggtgat gacaatgcc ctttggttta ccaacctggg aaaaagaggg 660
 attttaatac cnccaanggc ctgggcaagg aacacagaaa 700

<210> 4916

<211> 668

<212> DNA

<213> Homo sapiens

<400> 4916

tgaaaataat gtactgcccc atgtattact gttccaaaag gagaaagcta tgtagaaaga 60
 tacattaagg gtgaaaatag caatacagta gatttgaata ccttgatgtt ttgcattact 120
 tcatttatgt ttacatcatg tttagaaatg ttttcattta ctgtggtctt tggtcacttc 180
 agctcaaaga cctagtgatg gatatttctt tgaggctttc atttatataa ttttattttg 240
 tacaatgttt tttttaaatg tgcaaatact gtattcaagt gaaaaaaata cagtatttgt 300
 agataacat agctactaca cagttcttcg gtagtcccag tgtagttata tcagtgttta 360
 ctgaaggga catcaaaata ttaatggtat attataaaat aaagactttc ttaaaggaaa 420
 attgcaccta ttttaccttt ttaagagtaa gccatgaaat cttgtaacat gtctcttaac 480
 tatttataat gaaaagtggc atttgggtat agtcaccaca gcantgttct anatecctaa 540
 gattatctag gtaggacatg tcaaagatga cggttgtcat tctggaggcc ctattatgag 600
 aatattataa aagggtgncc ttgtangaag gatcttgngt cctccccctg aggttctctt 660
 tttcttgg 668

<210> 4917

<211> 724

<212> DNA

<213> Homo sapiens

<400> 4917

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aaaactatTT gagacataaa cagttgtgtg atgtaatTTT agtcgctggt gatcgcagaa   60
ttccagctca cagattggtg ctctcctctg tctcagacta ttttgctgcc atgtttacta  120
atgatgtcag agaggcaaga caagaagaaa taaaaatgga aggtgtagaa ccaaattcgt  180
tgtggtcctt gatccagtat gcttatacag gccgccttga attaaaagaa gataatattg  240
agtgcctggt atctacagct tgccttcttc agctttcaca ggtttagtaa gcatgctgta  300
agtttttaat gaaacagctt catccatcca actgtcttgg aattcgttct tttgctgatg  360
cccaagggtg tacagatttg cataaagtgg ctcaaatata tactatggag catttcatgg  420
aagtaatcag aaaccaggaa tttgtattat taccagccag cgaaattgca aagctcttgg  480
ctagtgatga catgaacatt cctaattagg agacaatatt gaatgcactt cttacttggg  540
tccgtcatga tttggaacag agacggaaag atctaagtaa acttttggct tatattaggc  600
tactcttctt gcaccacagt tcctgggcag acatgggaaa taatgtacnt tttcgggatg  660
atatagatgt cagaaactca ntatgggagc aatgaaatac catttattac cagagagAAC  720
cgan                                                                    724

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<210> 4918

<211> 732

<212> DNA

<213> Homo sapiens

<400> 4918

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aaaaaataaa agatttcatt ttatgtgagg aattatTTTa ataaaaaaaa gagggtttat   60
gctctatagt aataaaatTT accagtaaca cccaatcaga aaattttggt tccttagtat  120
ttagggaaga cttttgtctc ttatggaatt ttacatgttt tgatttagaa aagtagatgc  180

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aatataatat atttcaagtt ttatacatat tagatgaatt gcatggtatt ttaggcaact 240
 taactataaa caaatattatt catagaagca ttgttgccaa caatttagat gacctcgatg 300
 aaaaaacaca ccaattgaca aaactggctc aaaaggaaat aaaaaatcca aacagacctg 360
 taacaagtaa agagattgaa ccagtaatca aaaatctccc aacaanagaa agtccaggac 420
 taaatgagtt tactggcaaa ctatgccaaa catataaaga agaattaaca ctaatccttc 480
 tcgaactctc ccaaaaaatg gaagagaaag gagcaccttg tgacattcta taaggcggac 540
 attaccttaa caccaaagcc agacaaagac ctcacaggga agctacagac caatatccct 600
 tatgaatata gatgcagaaa aacttcaaaa tactagcagg ccaaattccag cagcttatta 660
 aaaatgtcac acaggcanga ccaagtgaga tttatcacgg aaatgcaggg gatggncttc 720
 atacaaaaag tt 732

<210> 4919

<211> 811

<212> DNA

<213> Homo sapiens

<400> 4919

ataagcacac gagctggagg actgggtatc aatctcactg ctgcagacac agtgattttc 60
 tatgatagcg actggaaccc cactgtggac cagcaggcca tggacagggc ccaccgctta 120
 gggcagacaa agcaggttac tgtgtaccgg ctcatctgta aaggcaccat tgaagaacgc 180
 attctgcaaa gagccaagga gaagagttag attcagcgga tggatgatttc aggtgggaac 240
 ttcaaaccag ataccttgaa acccaaagag gtggttagtc ttcttctaga cgacgaagag 300
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 gtgaaagagc gcaagcgga gcgggaaaag tatgcagaga agaagaaaaa agaagatgaa 420
 ttggatggga aaaggagaaa agagggtgtg aacctggtga tcccatttgt tccctcggct 480
 gataactcca acctctctgc tgacggagat gactccttca ttagcgtgga ctcagccatg 540
 ccaagccctt tcagttagat ctccatcagc agtgagctgc aactggctc cattcccctg 600
 gacgagagca gcagtacat gctggtcatt gtggatgacc cagcctcctc agcccctcag 660
 tctcgagcta ccaactctcc cgcatccata acangctccg tctcagatac cgtgaatgga 720

attccattca ggaaattinca actgcaggac ttggtcactc aaccccgaaa gccgaaggcc 780
gccccaaang gtcaagaaan cacaagccaa a 811

<210> 4920

<211> 851

<212> DNA

<213> Homo sapiens

<400> 4920

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caatgcttct gctgtagcta gaaaaaagtt attacataat tctgaagatg aacagagctt 120
aaagtcagaa attgaagaag aggagctaaa agatgaaaat caactattac cagtgtccag 180
ttctcacact gccagagca atgttgatga atctgaaaac agagactcag agtcagaaag 240
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tacatttcac aagaatgcga gtttctttaa aaaaaccaag attctgagtg actcagaaga 540
ctctgaatct gaagagcaag atagagaaga tgggaaatgt cataaagtgg aaatgaaccc 600
aatttcagga aatctgaact gtgaccctat tgctatgtcc cagtgttcct cagatcatgg 660
atgtgaaact gatttagatt cagatgatga caaaatagaa aaaccaaaca attttatgaa 720
aagattctgc atcacaagga catggactaa gcagaaaaat ttccaaggaa aaagggtctg 780
ttccagtgac tcagacagtt antttacagg gnggttaaga aatcatcaaa agccagaaca 840
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<210> 4921

<211> 805

<212> DNA

<213> Homo sapiens

<400> 4921

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atgggtccag ccaagcattt gctagtgtgg aagaagcatt gcatgcattt attcagccag 120
agatttctgga tggcccaaat cagtattttt gtgaacgttg taagaagaag tgtgatgcac 180
ggaagggcct tcggtttttg cattttcctt atctgctgac cttacagctg aaaagattcg 240
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aactagatat gagtactttt attgatgttg aagatgagaa atctcctcag actgaaagtt 360
gcactgacag tggagcagaa aatgaaggta gttgtcacag tgatcagatg agcaacgatt 420
tctccaatga tgatggtgtt gatgaaggaa tctgtcttga aaccaatagt ggaactgaaa 480
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agcagtggta cagcttcaat gatcaacatg tcagcaggat aacacaagag gacattaaga 660
aaacacatgg gnggatcttc aggaagcana gggatattaa tcctagtgtt ttcgcaaagt 720
tccacaaaat gcatatatgc cggatccaat agactggaag ggntcaagcc aggaaatgca 780
aantttctag aaagtgggng gaatt 805

<210> 4922

<211> 509

<212> DNA

<213> Homo sapiens

<400> 4922

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cgtatgttct ttttaaattg atctgtagac ttaataaaat tccaattaga atccaagcag 120
gatttgttct tatagataag ctcatatga aatgtatatg gaatgtaaag gaactagtgc 180
tatggtttgt cccacacaaa tctcatgttg aaatttgatc ctcaagtgtg tgggtgttggg 240
aggtggggcc tagtgggagg tgtttgggtc atgggtgttg atccctcatg aatagatgaa 300
tgcccttcct cgtgggtaga taagtgagtt ctagctcttt cagggtccaa caagagctgg 360

ttgtgaaaaa gagcctggca cgcccacttg cctctgctcc caccctgtgg tctctgcacg 420
tgccagctcc cctttgcttt ccaccgtgag gggaaatagc ctgaanccct cactggatgc 480
ccaatcctga actttcccaa ccagcanna 509

<210> 4923

<211> 682

<212> DNA

<213> Homo sapiens

<400> 4923

agaagatgct tcaaattcaa cccgagaagg atatcattgt agagtttata aaaaatggag 60
atttcaagta tgtccgcatg ctgggggcac ttacatgag gctgacaggc actgcaattg 120
attgctacaa gtacttggaa cctttgtaca atgactatcg aaaaatcaag agccagaacc 180
gaaatgggga gtttgaattg atgcatgttg atgagtttat tgatgaacta ttgcacagtg 240
agagagtctg tgatatcatt ctgccccgac tacagaaacg ctatgtatta gaggaagctg 300
agcaactgga gcctcgagtt agtgctcttg aagaggacat ggatgatgtg gagtccagtg 360
aagaggaaga agaggaggat gagaagtgg aaagagtgcc atcacctgat caccgccgga 420
gaagctaccg agacttggac aagccccgtc gctctccac actgcgctac aggaggagta 480
ggagccggtc tcccagaagg cggagtcgat ctcccaaaag gagaagcccc tcccctcgcc 540
gagaaaggca tcggagcaag antccaagac gtcaccgcag cagggtcccga aatcgggggc 600
acagatcccg ttccaantcc ccaggtcatc accgtngcac agacacagga gccactcaaa 660
gtctccccga aaggtccaan ga 682

<210> 4924

<211> 693

<212> DNA

<213> Homo sapiens

<400> 4924

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 agctggagat taatgggcgg aacaatctga ttcaacagaa gactgccgca gccatgttcg 180
 cccagcagat gcagcttatg ctccaaaacg ctcaaagtgc atcacttggt tcttttcccta 240
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 ggatgggcct cgttcctgca gaacttgtac caaatacacc tgttctgatt cctggaaacc 360
 cacctcttgc aatgccagga gctgttggcc caaaactgat gcgttcagat aaactggagg 420
 tttgccgaga atttcagcgt ggaaattgta cccgtgggga gaatgattgc cgctatgctc 480
 accctactga tgcttccatg attgaagcga gtgataatac tgtgacaatc tgcattggatt 540
 acatcaaagg tcgatgctcg cgggagaaat gcaagtactt tcacctcct gcacacttgc 600
 aagccagact caagggangc tcatcatcag atgaaccatt cagctgcctc tgccatgggc 660
 cctgcagnct ggganactgc aactgatacc aaa 693

<210> 4925

<211> 719

<212> DNA

<213> Homo sapiens

<400> 4925

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 ctgttaccag ggacaaatgc aatttcaaatt ttagcattg gtcttccaag caataatgaa 180
 tcgtatttcc agatggattt tgagagtgga caagtggatc cactggcatc tgtaattttg 240
 cctccaaact tacttgagaa ttttaagtcca gaagattctg tattagttag aagagcacag 300
 tttactttct tcaacaaaac tggacttttc caggatgtag gaccccaaag aaaaacttta 360
 gtgagttatg tgatggcgtg cagtattgga aacattacta tccagaatct gaaggatcct 420
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 cagagattca gatgcaagtg agacagtctg cctgtgtaac cacttcacac actttggagt 600

tctgatggga ccttccaaga agtgnctcac agttagatgc aagaaacact aaagtcctca 660
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<210> 4926

<211> 811

<212> DNA

<213> Homo sapiens

<400> 4926

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gccagaaagg gctattgcaa gacacgaagt ccgagaaatt gagcagcgac atacaatgga 180
tggccctcgg caagatgcca ctttagatga ggaagaggac atggtgatca ttataacag 240
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cttctgtggn catagctccg aatgctggaa tgtgggaaac angtgggcta tgggtnaagc 720
caagttaaac ctaaataatg aataatttct ggtgggagtt actgaagaac ttgaagattt 780
tancatgtta ttggaggga cattgccccn g 811

<210> 4927

<211> 750

<212> DNA

<213> Homo sapiens

<400> 4927

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 agttgtccaa agccatgata atgatatctc ttacaaattg acttctgtaa cccccctaga 180
 aataaccctt ttccttattt gattttagtc atcaaacata gtatgatatg ggaaaagtca 240
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<210> 4928

<211> 759

<212> DNA

<213> Homo sapiens

<400> 4928

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 tgctgtctct ccgctccgcc accccgaacc cgccaaggctc ctgtcctttt cctcctgtcc 180
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attacanaca atgcagaatt tccagaagga aaacatgaaa atggaaatga ctgaagaaat 660
gatcaatgat acacttgatg acatctttga cggttctgat gacgaagaag aaagccagga 720
tattgggaat caaagttctt gatgnaattg gnantgaaa 759

<210> 4929

<211> 722

<212> DNA

<213> Homo sapiens

<400> 4929

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cagatacatc acaattatac tagaagattt caacacccct ttagcaatag ttgatagaat 180
agttagaaaa ttagtaaagt tataaaaggc ttgaacaata ctatcaacca acctgacctc 240
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gatcatggct cactgcagct tcaacctctc aggttcaggt ggTTTTCCA cttcagcctc 360
ccaagtggct gagagtacag gcatgcacca ccatgcccac ctagctTTTT aatTTTTgt 420
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tcctgcattg gtctcccaaa gtgctgggat aataggtatg aagcactgtg cctagccaac 540
ctgacttaat tgatatgtat agaacatgcc accaacagca gaatatacat tctcttcaag 600
gtacacacag aacatttagt aaggataggc attctgaatt ataaaatata tctcagtaga 660
tttaaaggac ttaaatcaag gtccccngac nacaggtgaa attaaatTTT ggggatnaag 720
ta 722

<210> 4930

<211> 455

<212> DNA

<213> Homo sapiens

<400> 4930

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 gcccaccgc cccgggagct cgcctccccg gtgctcccc gccctcccc cccccccagc 180
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<210> 4931

<211> 733

<212> DNA

<213> Homo sapiens

<400> 4931

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 gggggccct ctgaagcggc ccaggatcct gcacatggcg ctgaccgggg cctcagaccc 180
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 tctacaatgt gggccgctca ctaccaccg tcttcaacgt gctgctctcc tacctgctgc 600
 tcaagcagac cacctccttc tatgccctgc tcacctgcgg tatcatcctc cggggggcctt 660

ctggcttggg gtggaacaag nagggggcaa aanggaaccc tgtcntggct gggcaccgtc 720
ttcggcgtgc tgg 733

<210> 4932

<211> 734

<212> DNA

<213> Homo sapiens

<400> 4932

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caaggatttt ttaaaaatgg aaacttctct catgttattc aactagagca cttcagttta 240
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tagcactgca gttcaaaagt gttaatattt aaagggactt ctagatttta tacctaagtc 660
agtagaacct tgaagtatat taagcttttt tgntaaanct tgaacaagtt gggnaagaat 720
aatggtagt tccc 734

<210> 4933

<211> 858

<212> DNA

<213> Homo sapiens

<400> 4933

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 gtaacaagaa tgggcaggat accaaggaaa cagactaatc aggcatatgg tgactatttt 180
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 cgggataaaa acacaaaaag gtatctcggg cacaatgccc tgaaggnaaa caaccatggc 720
 caagaacatg agggtaatgg ccagggnata agaaaacacc cctgggggtg ggatcccttg 780
 acaactcctg attcctaagg ntcaattagg gggattgggtg caaaaaaaat ggtaaanggt 840
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<210> 4934

<211> 784

<212> DNA

<213> Homo sapiens

<400> 4934

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 gaagcttggg aactaatagt tttagagttt taagatacca cgtttttagta taacattttac 180
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gcctcccaaa gtgctgtgat tacaggtgtg agctgctgag accagccttt tcttttaatt 480
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 ttggggaatg tggtaaaacc ggggaggtat atttgacttt gnccaagtta tccgcatgag 720
 gnangttagc taaagcaaaa tacaagtggg gtgctcccta caatcactgg gacctagaga 780
 ttca 784

<210> 4935

<211> 788

<212> DNA

<213> Homo sapiens

<400> 4935

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 attacagaac cttgtgaagc caacgcgggc agccgccagg agctgcagac cgagaggatc 180
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 tacctggacc tgcgggatag cccacatgct ggagggtcgc gagaagaacc tgcactttgt 660
 ccatatggtg tacacaaagg ggctggtgga ggacacactc acgggaaatc tcggagtggc 720
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<210> 4936

<211> 711

<212> DNA

<213> Homo sapiens

<400> 4936

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ttttataact ggttttttaga aaaatattta tattgttggg gctcaaatca ccaatttcta  180
gctagatcat tttgcagcct tcttttcagt gttaataaac aaagtttttc ctaatggccc  240
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gatctagtct gtaataagct tgggcatggc tctgctgaaa gcaagccatt cagtttcttg  600
tttgtagcta aaacacaaaa naagaaacac tcaaatccag ctgctttgtc aattgtcagt  660
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<210> 4937

<211> 776

<212> DNA

<213> Homo sapiens

<400> 4937

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aggcttcctt cctaagcctc tctgtgaaac tctttgaaaa ggggtatgtg ggctagcttg  180
caaggacagc cagaaggag aaggatcaca tccccctccg tggccaggct ctgagagaca  240

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gaaatccagt gaaggacaga gcatggggct gagtgtctgt agcccactgc attgagggca 300
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<210> 4938

<211> 788

<212> DNA

<213> Homo sapiens

<400> 4938

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 ccatcagtgg naccaggatg gttaaaggca acttatgaag gnaaaacaag gactagttcc 660
 agaaaattan gttgtcttcc tctaatacta tttaagtgga tggcaagtat cttcaaggga 720
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actaagtn

788

<210> 4939

<211> 776

<212> DNA

<213> Homo sapiens

<400> 4939

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<210> 4940

<211> 702

<212> DNA

<213> Homo sapiens

<400> 4940

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<210> 4941

<211> 572

<212> DNA

<213> Homo sapiens

<400> 4941

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<210> 4942

<211> 587

<212> DNA

<213> Homo sapiens

<400> 4942

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<210> 4943

<211> 684

<212> DNA

<213> Homo sapiens

<400> 4943

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caggggttgt gtgttatgcc tgcagaattg ccagtacctt actgctttat caggaattaa  300
tgcgaaagg gatacgatgg ctgattgaat taattaaaga tgattacaat gaaactgttc  360

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acaaaaagac agaagttgtg atcacattgg atttctgtat cagaaacatt gaaaaaactg 420
 tgaaagtata tgaaaagttg atgaagatca acctggaagc ggcagagtta ggtgaaattt 480
 cagacataca caccaaattg ttgagacttt ccagttctca gggaacaata gaaaccagtc 540
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<210> 4944

<211> 826

<212> DNA

<213> Homo sapiens

<400> 4944

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 gagatgactt agaaagtgat cgatacttaa tcacagttga agaggttaaa gttgctggag 360
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 gttttcaagg accacgtcag gttccaaaga aaatggttat tatggaaagt ggtgaatcag 540
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 acatgtgact tacaagaaca gggagagaaa tgccatgggt ttttcctcgg gtttttcccc 720
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<210> 4945

<211> 723

<212> DNA

<213> Homo sapiens

<400> 4945

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ggtttaagtg tgaacagggtg tttgtagctt atctgagact gacagtaggt aaaggggcca  180
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gaggaagaca ttattatac agagtgattt attgcaattc ttagctactc catcaagcta  300
gacttgtcac catgtcccat taaaagggtt taagaagaat tctttctcag aatcctgcat  360
tacagtagca tctgcaataa ggagaaaatt ttcttctggg aatcactcca ggaaaccttg  420
accatcctc tacttagtca ctcttataga gccctgcatt ttcttttgta gcatttatga  480
catgtgtaat gttacatttg tttgtgggat tatttaagga atgtctgtca tgtgagacaa  540
ataagcttta tgaagtacag gcacctcttc tgtcttaatt cctatgcccc aagcacagtc  600
cctgacatct agtanacctt caaaaagttt tacggaatga atgagtgaac aaatgatgca  660
aagtgttggg tgcaggatat ctctctcaag tcttccaant ccttaaggag atnagaggca  720
ana                                                                    723

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<210> 4946

<211> 748

<212> DNA

<213> Homo sapiens

<400> 4946

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agactgagct cagtagccag gcatgaaaga gactgggcaa gttgcagggg ctaattggaa   60
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agggtggctaa gatcagtcctt ctgggcaaaa aaataaacta agcatagagt gcagttggat  180
atgaccgagg aaattacaaa aagggttcca ggagcaaagt ctgagcttct cttatcagtg  240

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ttgcagtgga atagctgggg gcctgatgct gtttgtgctg atcatacttt gcaaagtccc 300
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 cggccttact ttgttttcat agcagcaaga attgaagact taagggtttg agcagatggt 420
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 aaacagatct tgctctttca tgtaaagaag taaaagttat ttatgattcc atctgatata 600
 cataggagag aaactgatan aagaattctg aagggaact gtatgataaa aagctatata 660
 aagtccaagt gtncaatttc cttcaaccat aattttgagc aaaccaagg atttaaagtc 720
 cnnggggaac ctgaacaatt taatttgg 748

<210> 4947

<211> 560

<212> DNA

<213> Homo sapiens

<400> 4947

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 tgagcagatt gtcattggca cccctgggac tgtgctggac tgggtgtcca agctcaagtt 180
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 ctatgtcctg tgcagcagca gagacgagaa gttccaggcc ttgtgtaacc tctacggggc 480
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 ancaangget ctcaaangaa 560

<210> 4948

<211> 710

<212> DNA

<213> Homo sapiens

<400> 4948

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acagaattcc cgggtccgcc agagcccact tgcaaccagg agagcattcc taaagaagaa  180
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gctgattcag cagcagcaga agattcagga gcttgccac gagctggncg ctgccaaggg  600
caccacatcc accaactgga ttctggagtc caaaatatac aacgaactca agtccgaaat  660
tactcentga aagggttct tttaatccgn gganttcctc catcccatca   710
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<210> 4949

<211> 648

<212> DNA

<213> Homo sapiens

<400> 4949

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agacttaaca agctgcagat aaccatgtgg acttctgtca taattcttgc tgagtcaaga  180
gtgtaaataa aagaaatggc aggactcata ttattcagtt gtacccaagt atttaaaaat  240
gactctctta agccttaaaa agtcatagat ttgtgctgct gccagaatta tattaattat  300
tattaatgtt attattagaa aaaaaatttc tggagtgaga gtaaagaggc ttaattagtt  360
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tgtgggcagt tttcatatgc tctgtgaaat gtgtccggat gtgacatagt tttttttttt 420
aatatgtgga aatgtcttct ctteccattc ttttctccta aaatcatata tactgtaata 480
tatgctctct cacctctatt acctctcac atctaccctt tcccangtta ggtttgcttt 540
ttgacaaaa agataaaaa taccaaggta tggcaagttg tgaagacagc acattaaaac 600
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<210> 4950

<211> 823

<212> DNA

<213> Homo sapiens

<400> 4950

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gggCCgggtt tgggttccg ccacagcttt ttttctcaag gtgcaatgaa agccttccac 180
actttctgtg ttgtccttct ggtgtttggg agtgtctctg aagccaagtt tgatgatatt 240
gaggatgagg aggacatagt agagtatgat gataatgact tcgctgaatt tgaggatgtc 300
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gatacccagg agggagatac tgagagtga ccatatgatg atgaagaatt tgaaggttat 480
gaagacaaac cagatacttc ttctagcaaa aataaagacc caataacgat tgttgatgtt 540
cctgcacacc tccagaacag ctgggagagt tattatctag aaattttgat ggtgactggt 600
ctgcttgctt atatcatgaa ttacatcatt gggaagaata aaaacagtcg ccttgcacag 660
gcctgggtta acactcatag ggagcttttg gagaacaact ttactttaat ggggggatga 720
tggaactaac aaaagaaacc acaagcacia ggaaaattta accaangang aaatgagcaa 780
aatccaataa acctgttggg ggttcnggt ccaaattttc ccg 823

<210> 4951

<211> 595

<212> DNA

<213> Homo sapiens

<400> 4951

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 gtccccacct cctggggccg acgggcggca ggaaggggct cggcgggacg cgccgtcagg 180
 gacctgagga ggaacaacgg aacgcgttcg gaacggcctg gactcccag agtccccga 240
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 atgcgccgcc tgtcctggag gggcccattt ccttccgtcg tggggggaag gcacagttag 480
 tccactgggg cacggcagcg tctaagccac aagcccgagc acataagcca agtcctaacg 540
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<210> 4952

<211> 704

<212> DNA

<213> Homo sapiens

<400> 4952

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 tgggggtcat aggatagtag aatggccaac atctcaattt agacatgtta cttcctgctc 180
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 aaaaaaacta anggacctca atanttgacc aagaccaata ggaa 704

<210> 4953

<211> 756

<212> DNA

<213> Homo sapiens

<400> 4953

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 ggaaaagacc gctgacttca gaaacagcgg gaaccccagc tcgtcaccgg taattcaaga 180
 ggaaacgctt gagcaattac tgatgttgta aactgggatc agaagacata catggtatcg 240
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 ttacagctga aggaaattaa gcttcaaagt tgcccaagtt tananaatga agtcaatggg 720
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<210> 4954

<211> 695

<212> DNA

<213> Homo sapiens

<400> 4954

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<210> 4955

<211> 776

<212> DNA

<213> Homo sapiens

<400> 4955

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tccattgttg tcctcaatgg aaagtgtcat aaatccaaat ataacttctc angataaaaa 540
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tcctttcctt ccctttacct ggcangaaag gtaggtcaaa tggctctctc tttcccttca 720
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<210> 4956

<211> 720

<212> DNA

<213> Homo sapiens

<400> 4956

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ttgtangaga aatcaaaaga gactctccta tctttccttg ctgcctggct atactagact 660
gagaaaacca gntaacaaga agtcctggat ctgggattct gataaagcag gaagcaanan 720

<210> 4957

<211> 535

<212> DNA

<213> Homo sapiens

<400> 4957

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<210> 4958

<211> 718

<212> DNA

<213> Homo sapiens

<400> 4958

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 ttcacactgg agagaaacca tacaaatgtg aagaatgtgg caaagctttt aactggggct 600
 cgantcttac taaacataag agaatccata ctgggtgagaa ancctacaaa tgtgaagaat 660

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<210> 4959

<211> 815

<212> DNA

<213> Homo sapiens

<400> 4959

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gttaacagac ttttaaaaga cagaactctt acaaaggggc ttgagttttt tttttttttt 240
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cngtatttaa ttggtttttg tgggttttgg agaatagatg cttaaatgtt aatttcngg 780
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<210> 4960

<211> 756

<212> DNA

<213> Homo sapiens

<400> 4960

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 atacataatt ctgatgaaca caaggacatt cagagttgta cagtagaagt tcattttcaa 600
 aagataattg ataaggaagg ggatgattat gaaagtcatt cctaacagta atttctatgt 660
 atccagaacg gcctgcanag ataanacttc tgtctatcac ataagtggga aagaaaaaga 720
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<210> 4961

<211> 792

<212> DNA

<213> Homo sapiens

<400> 4961

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 gcatttttta aagaaacagt agcaataggg gcatagaatc ttaaaattta aaaggtctta 180
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cagaaaatta attttagaat gtcaattctg ggtatatitt gatgagaata tgagaaagta 720
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<210> 4962

<211> 782

<212> DNA

<213> Homo sapiens

<400> 4962

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ctgaaagctg cagtaancct gccatctgtc tctcaaaaag ggcccctgcg cctgctctcc 720
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<210> 4963

<211> 710

<212> DNA

<213> Homo sapiens

<400> 4963

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tgtacttctg caacagattg aagaattagg gtctgaagga aaagtanaag aagcccaggg 600
gatgatgaaa ttagttgagc aattaaaga agagagagaa ctgctaaggt ccacaacgtc 660
gacaattgaa agctttgctg cacaangaaa aacaaatggn antttgtgaa 710
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<210> 4964

<211> 799

<212> DNA

<213> Homo sapiens

<400> 4964

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gaataagatg gcggggaaga agaatgttct gtcgtctctc gcagtttacg cggaagattc 60
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gactgaaaaa cctgaggctg atgacccaaa ggataataca gaagcagaaa agcgagaccc 300
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gatcccgcca gaacccccctg gcagatgttc aaatcacttg caagacaaga tccagaagct 420
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 ggcatancc aaggccagaa aattgagatg gacaaattgg aaaagggcaa aaaggagcga 660
 acaaaattga gtttgtgacg ggcacaaaaa aaggcaccac gaccaacgcc acgtccaaca 720
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 tccgctatcc cagtgaac 799

<210> 4965

<211> 694

<212> DNA

<213> Homo sapiens

<400> 4965

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 tcacatctgt tcttcagcaa agggcaaacc tggaaattag ctatgccaaa ggacttcaga 180
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 aagcaattgn atttgaagca ataaaaccga cttatcaagt cctaaatgta caagagaaga 360
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 caataaactg acaaaatcaa ctgaaaagtt ggaaaaggaa natgaaaatt actacaaaaa 600
 aaacatgggg gggttattct accagactga aatgggaaaa cacactagag aactgctacc 660
 agagcattct ggagctggnn aaggaangaa ttca 694

<210> 4966

<211> 906

<212> DNA

<213> Homo sapiens

<400> 4966

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gatacctcag cgggcgccac ggtggctccc agcttgtaga caaaagacgt cactctcatt  180
ccttaatcga ccagaccttc caaacctggc ttataagaag ctaaaaggca aaagtccagg  240
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tacatcaatg caaggtttcc cgattcgaag tactcagcac agatgtggga tgtaaatcct  840
cccgaaaaac acaggngatt accgaantga ggggaaaaag gagacattca anctccttgg  900
ttaaac                                           906

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<210> 4967

<211> 795

<212> DNA

<213> Homo sapiens

<400> 4967

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aaaaagtgcc ggtcaaaatg gaaagtgaat ccccctaaac aggagcacct gctggcgcta   60

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 gaagcccaga ttcagaatat gacaacctca cctatgttta tggagaaggt tcactggagc 660
 catctattat gtacaatgta acaagaatta aattcagtca gccaaagctgg gagaatgtgt 720
 gtctacgttt gggtaagag catattttgc aaccaatggn tacacgcaa gtacttaaac 780
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<210> 4968

<211> 794

<212> DNA

<213> Homo sapiens

<400> 4968

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 tcatgtcaag agcaaaggat ggttttcttg agaagctaaa ttccatggaa ttcataacac 180
 tttctagatt aatggaaaca ttcattttag acaccgaaca gatctgtgga agaaaaagca 240
 cgtcattact tggagcactt cagagccaag ctattaagtt tgtaaataagg tttcatgaag 300
 agagaaaaac caagctcagc ctctcttag acaatgagcg ctggaagcaa gcagatgttc 360
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 aaaaatcagg agccacagaa gaaagggaac cagctgaagt tcttattgtc gagggacaac 480
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gtgtggataa catcccatct gttactactg acatgcttac tcgtctgtca gatttattga 600
 agtacttcaa ttcaagaagt tgccagtttag ttcttggagc tggcgcactg caagttgttg 660
 gactaaaaac gataactaca aaaaatttgg ctctttcttc acgatgtttg cagttaantg 720
 tgcactacat tccctgtgat ccgggctcaa tttgaagctc gactaccaac taagcaanta 780
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<210> 4969

<211> 646

<212> DNA

<213> Homo sapiens

<400> 4969

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 gtgcaagctg gagcgccggc tgcggcgca ggaggccgag gagagtggcc cccagctggc 180
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 cagccgccgc ctcatcaagg acctggagag catgttcaaa ctgtatgacg ctgggcggga 420
 tggcttcacg gacctgatgg agctgaagct gatgatggag aagctggggg cccccagac 480
 ccacctgggc ctgaagagca tgatcaanga ggtggatgag gacttcgatg gcaagctcaa 540
 cttccgggaa ttctgtctca ttttcacaag ggccgccgaa gggaactgca agangacatn 600
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<210> 4970

<211> 863

<212> DNA

<213> Homo sapiens

<400> 4970

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 gttttggtta tttataattt atcagccata tgtttatcag ccatataacc aactagatcc 180
 caaatagatc catgtatttg tttccgtgat ttggccacat taataaattc ataaatttca 240
 atcaaatac ttatatatac acacatatgg ttttaagctac agccctgtgt atgccgttta 300
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 tcctataagc cttaaaggca tttcttttgg gatatttttC ctgcatttta ttcctttttt 420
 atataagtag gaattaatta tttattttat gtcttaatct atttgataaa naagactaca 480
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 cgtcaaagag aattttattg ttgttttgta ttttcaagtc cttaaatagg tcntgaaact 720
 cccagttggt tccctgggtg aaagcagnca cacatttagn gcacggttta ttttaccttt 780
 cgggtgaaag atcaggagtt ttttattccc tcaattgggt caaatatatt tgggaaagga 840
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<210> 4971

<211> 668

<212> DNA

<213> Homo sapiens

<400> 4971

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 aaggttttct tcttggggaa gtaaaaggtg aagccaagaa cagcattact gattcccaaa 180
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 tagagagagg ctgcttcaca aaaacttgca ggagcatttt tcaaaccaag accttgtttt 360

tctgctatta acaccaagta taataacaga aagctgctct actcatcgac tggaacattc 420
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 ccgagcagta caaacacaca gctctaaatt ttttgaagaa gatggatcct taaaggaggt 600
 acataagata natgaaatgt atgcttcatt acaagaggaa ttaaagagta tatgcanaan 660
 agtgggaa 668

<210> 4972

<211> 531

<212> DNA

<213> Homo sapiens

<400> 4972

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 cttggggaga agccctataa atgtagctat tgtgagaaat ccttcaacta cagctctgcc 180
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 acataccgaa cccttacann ccacangaaa gtcatcttg gggagaagcc ctacaaatgt 480
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<210> 4973

<211> 694

<212> DNA

<213> Homo sapiens

<400> 4973

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 tttcctgata caatgctaca agcagcagga tgctttgtgg gggtcgtcct gtcctctgag 180
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 ctaaactccg agagcggatt caaccanaag aaaaacccgt ggaagttagt ccagctgtca 660
 ccaagggact tanatagcga ancaagctac aaga 694

<210> 4974

<211> 607

<212> DNA

<213> Homo sapiens

<400> 4974

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 tttaaagcaa gcctaanggc actgctgaag gacaggggaa catntagaac tgaccaagac 540
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607

<210> 4975

<211> 606

<212> DNA

<213> Homo sapiens

<400> 4975

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aaaatgtgat acaccttttc agaattactc agtcactaat gaagatgaaa gctcaagaag 540
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aattaa 606
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<210> 4976

<211> 710

<212> DNA

<213> Homo sapiens

<400> 4976

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gagaactgtg agtgtaatc aagaaggcag agcaggagaa gatgaaccag tcttcttccc 180
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ctcactaccc agatctctgc ctgccaacaa gccccgtgtt caccctggca aagagtcttt 240
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 gcttaagggc ctttttcaga gagaccaat gcccagaagg ctagatgcgt ggggaggagc 360
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 caaacaacaa ggtgcatctg ccccaaccca tccagcctgc atgttggtgc tgagaacagc 480
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 tagatacttt gcgtccttcc taattgactc agtctatgaa agccaagtta agcttgcttt 660
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<210> 4977

<211> 587

<212> DNA

<213> Homo sapiens

<400> 4977

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 agtagaggcg atgatgacgg cacttgattc tcttgtgtgt aactcagcca tcctccctag 180
 acccacgtcc caggaggcag ggctggtaaa gctatgactg ggcagtgttt gaccagctg 240
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 atttctgttt gtaatgtgct ttantatag aaatcctctt tttgttctt aaatctatga 540
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<210> 4978

<211> 861

<212> DNA

<213> Homo sapiens

<400> 4978

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cgccctgggtc caaaattccg n 861
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<210> 4979

<211> 738

<212> DNA

<213> Homo sapiens

<400> 4979

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<210> 4980

<211> 672

<212> DNA

<213> Homo sapiens

<400> 4980

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 a a g g g a t c g c c g g g g a g g g g g a c c a g a g a g c c g c g c c c g c c g c g c g g a g c g c c c t t c g c 180
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 c a c a c a c a g t g g g g a a t t g a t a t t c t t g a g a a t a t a t c a a g t t t g t g a a a g a a g g a c a 300
 g a g a t t g a a c t c a g c t a t g c a a g c a a c t c a g g a a t c t t t c a a g a a g t a c c a a c c t a a a 360
 a a g a a c t c g a a g g a g g a a g a g a a t a c a a g t a t a c g t c a t g t a a a g c t t t c a t t t c c a a c 420
 c t g a a c g a a a t g a a t g a t t a c g c a n g g c a g c a t g a a g t t a t c t c c g a g a a c a t g g c a t c a 480
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<210> 4981

<211> 676

<212> DNA

<213> Homo sapiens

<400> 4981

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<210> 4982

<211> 800

<212> DNA

<213> Homo sapiens

<400> 4982

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<210> 4983

<211> 711

<212> DNA

<213> Homo sapiens

<400> 4983

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<210> 4984

<211> 667

<212> DNA

<213> Homo sapiens

<400> 4984

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<210> 4985

<211> 781

<212> DNA

<213> Homo sapiens

<400> 4985

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 a 781

<210> 4986

<211> 820

<212> DNA

<213> Homo sapiens

<400> 4986

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 cagtgtccaa agtgaataat tactgccagt actgcatcac agagaaagga agggatccct 180
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<210> 4987

<211> 744

<212> DNA

<213> Homo sapiens

<400> 4987

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<210> 4988

<211> 698

<212> DNA

<213> Homo sapiens

<400> 4988

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<210> 4989

<211> 542

<212> DNA

<213> Homo sapiens

<400> 4989

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<210> 4990

<211> 578

<212> DNA

<213> Homo sapiens

<400> 4990

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<210> 4991

<211> 638

<212> DNA

<213> Homo sapiens

<400> 4991

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<210> 4992

<211> 474

<212> DNA

<213> Homo sapiens

<400> 4992

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<210> 4993

<211> 625

<212> DNA

<213> Homo sapiens

<400> 4993

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<210> 4994

<211> 682

<212> DNA

<213> Homo sapiens

<400> 4994

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<210> 4995

<211> 627

<212> DNA

<213> Homo sapiens

<400> 4995

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<210> 4996

<211> 514

<212> DNA

<213> Homo sapiens

<400> 4996

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<210> 4997

<211> 670

<212> DNA

<213> Homo sapiens

<400> 4997

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 ctgtgctgtg gggaataactt tcaggcaatt gttaccanta ttttgaagat gacaacntgg 600
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<210> 4998

<211> 655

<212> DNA

<213> Homo sapiens

<400> 4998

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<210> 4999

<211> 735

<212> DNA

<213> Homo sapiens

<400> 4999

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 gtgcaaggat gtggaatcac tgtcaaact gatcaaggaa aacctggnc tttgatcaagc 660
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 aaaagctggg gtttag 735

<210> 5000

<211> 754

<212> DNA

<213> Homo sapiens

<400> 5000

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 gaaacaggac ttgagaagt tcctacataa actgcgttcc gaagctgaaa ttgagagaga 180
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<210> 5001

<211> 748

<212> DNA

<213> Homo sapiens

<400> 5001

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cacagcctcc caagtcccaa gtgcttgga ctccaggaaac atgccacat gcctgactaa  180
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caaaagtaaa cttgtgaaac ctgatggatt tcagtanttg acatcaagca tctacttttg  660
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<210> 5002

<211> 789

<212> DNA

<213> Homo sapiens

<400> 5002

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aacccttggt tgaaatgaag gaactgtcaa taattgacag ccaactaata cagtaaactg  180
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aatcaagtca gtttttttta aaagaatgat ctatggaaga aaaccaata gtacttataa 660
tatacaaatg aattatacta ttaagataaa gaattaaata ttccantttt ataaagataa 720
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tggagggga 789

<210> 5003

<211> 753

<212> DNA

<213> Homo sapiens

<400> 5003

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gacttcaaaa atgaatataa aggaatgtta ttacaaaagg tagaaaagag tgtggaggaa 240
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cagtatgcag caaaagtata ccgtgatgat cgactccgaa ggaaggcaga tgccttgagc 360
atggacaact gtaaagaatt agagcggctt accagtcctt ataaaggagg atgaactgga 420
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<210> 5004

<211> 746

<212> DNA

<213> Homo sapiens

<400> 5004

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 cgtctcctca ggaggaatgt tggttcagaa actgaacacc aatgatctcc agtccgaaag 540
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<210> 5005

<211> 698

<212> DNA

<213> Homo sapiens

<400> 5005

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gcggcaggac agtcacccctc tataaggttt ctgatcagaa acccttgggg agctggtcag 180
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<210> 5006

<211> 889

<212> DNA

<213> Homo sapiens

<400> 5006

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 aatgaagat ggaacatggn caaggggtcc ttctactcct aaaaagccac tagagcanag 720

ttgctaataga acaattttaat ttccacatac gtcacagaaa gagagctaaa gggctctggg 780
tatcatccac agacctgaca atcaaccctt aaataacctg atattaactc cacaaatggt 840
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<210> 5007

<211> 663

<212> DNA

<213> Homo sapiens

<400> 5007

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<210> 5008

<211> 632

<212> DNA

<213> Homo sapiens

<400> 5008

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<210> 5009

<211> 706

<212> DNA

<213> Homo sapiens

<400> 5009

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706

<210> 5010

<211> 716

<212> DNA

<213> Homo sapiens

<400> 5010

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<210> 5011

<211> 793

<212> DNA

<213> Homo sapiens

<400> 5011

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<210> 5012

<211> 745

<212> DNA

<213> Homo sapiens

<400> 5012

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<210> 5013

<211> 738

<212> DNA

<213> Homo sapiens

<400> 5013

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<210> 5014

<211> 697

<212> DNA

<213> Homo sapiens

<400> 5014

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cagataatag actanagggt accaaggac cggggaaggg aaagaacggg ggaagttant 660
gtttaaatgg agggacagct ggtgggnttc caagtgg 697

<210> 5015

<211> 745

<212> DNA

<213> Homo sapiens

<400> 5015

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catcggcaac gacgtggact tcaagctgct ggagaaaccg tcgctggaga actgtggcct 660
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<210> 5016

<211> 582

<212> DNA

<213> Homo sapiens

<400> 5016

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tgatttctgt tgtttctgct gactgtgtgg gtggaatgtc ccaagaaaag tgcattctggg 480
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aagtaacctg gtgaagtcta ttgaangcca nactgcccc ta 582

<210> 5017

<211> 779

<212> DNA

<213> Homo sapiens

<400> 5017

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aaagggaaga cctacaatga aacagctcca atggctggga gcaaggatg aaatgggaag 720
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<210> 5018

<211> 791

<212> DNA

<213> Homo sapiens

<400> 5018

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tcatattatg gtacttctgt ctttggatca ccaagccatt caaagttatt cataaagctg 180
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ggggagtcaa atgaaattgt gaatctcagc ccacacatga aagaacgatt aagattantg 660
 tcactaagaa gccagaaat gggtatcagc cattgataat ttaagaagtg tccttgcctt 720
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<210> 5019

<211> 743

<212> DNA

<213> Homo sapiens

<400> 5019

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 aatgattctt gaaattaaga agaatcaatt gaaatttgct ccctttaaat gtgtagtacc 180
 tacatgtaca aaaacattta caagaaattc taacctccgg gcacactgtc agttggtgca 240
 tcattttaca actgaagaaa tggtaaagtt aaaaattaaa aggccttatg gaagaaaatc 300
 tcagagtga aatgtgccgg cctcacgaag tacacaagtg aaaaaacagc tagctatgac 360
 agaggaaaat aaaaaggaat ctcagcctgc tttagaattg agagcagaga cccaaaatac 420
 ccacagtaat gtagcagtga tcccagaaaa acaacttgta gaaaaaaaaa gtcctgacaa 480
 aacagaaagt tctttacaag tgattacagt tacttcagaa caatgtaata caaatgcact 540
 cacaacaca caaaccaaag gacggaagat taggaggcat aaaaaagaaa aggaggagaa 600
 aaaacgaaag aagccagttt cccaatccct tgagtttcca acaagataca agtccttaca 660
 gacccttacc gatgtgttca acangggatg ctttgctgnc tttacgatac agcaaaactt 720
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<210> 5020

<211> 690

<212> DNA

<213> Homo sapiens

<400> 5020

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 aatgtaaatt agtacaacct ctgtggaaga caggatgggt atttctcaaa gaactgaaag 180
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 agcgttcagc atacggngg atcccgttg gcctcttgag ttccttagn atttattggt 660
 cattcctggg gggttcncgg aaagggggat 690

<210> 5021

<211> 755

<212> DNA

<213> Homo sapiens

<400> 5021

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 ttgatacaga caggagaccc agaaatgctg ggtagaagag ggtggttccc tggcaaaggc 180
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cccttccagc tccccatcca tcctgctgag agccacctcc accactcagt gaaaccgctg 540
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gtccagtga cgtgtctaaca ctttaagtcac ccacggacag caaggctaac agaattgctgt 660
aacatgtgnc cacttgggct ctggggagtt gcagacacca cccgtaggtg ctgcatggg 720
tccggagccc aaaaaagtgc ttgncctggc tcctg 755

<210> 5022

<211> 703

<212> DNA

<213> Homo sapiens

<400> 5022

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aacatgaccc cggcgggtgca ggacgacttg ggtgggatct atgtcatcca tctgcgtagt 180
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cctgagcaca gggcacacca agaagcaagc catangcagt tctgtgagtc aaagaatggg 480
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tctgagccag tcagctacca caactctgga gtaaaatatg ctgcatccgg gcaagaatct 600
ttaagactga accacaaaga ggtaaggntc tccaaagaga tggagcgacc ctgggttang 660
cagccttctg ncccagagaa acactccaga gactgctaca agg 703

<210> 5023

<211> 781

<212> DNA

<213> Homo sapiens

<400> 5023

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 gagggaacct cctccgctgg gggacgggaa gcccaccgac tttgaggatc tggaggacgg 120
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 tgtattagat gatgacagag aagatctttt tgcagaagcc acagaagaag tttctttgga 300
 cagccctgaa agggaacctt tcctatcttc ggaaccttct cctgcagtca cacctgtcac 360
 tcctactaca ctcatgtctc ctagaattga atcaaagagt atgtctgctc ccgtgatctt 420
 tgatagatcc agggaagaga ttgaagaaga agcaaattga gacatttttg acatagaaat 480
 tgggtgtatca gatccagaaa aagttggtga tggcatgaat gcctatatgg catatagagt 540
 aacaacanag acatctcttt ccatgttcaa gtaagagtga attttcagtg aaaagaagat 600
 tcagcgactt tcttggtttg cacagcaa atagcaagcaa atatttacat gttggnata 660
 ttgtgccacc agctccagaa aagagtatag tagggggatt gtacccaaaa nggggggntt 720
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 a 781

<210> 5024

<211> 740

<212> DNA

<213> Homo sapiens

<400> 5024

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 nacttccaa tacagccggg cagagctacc caaactcgta cagtttgaac cgctatgatg 660
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<210> 5025

<211> 705

<212> DNA

<213> Homo sapiens

<400> 5025

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 tggcacaatc tgtgttgttt atatgatacc agatgcccc caagaaccct tattcctctc 180
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 ggagtggaa cccggaagta tttcatgtc tttcatcctt gaaagatttt tangtgcctg 600
 catTTTTTT ttaattaaaa aatgcttttc attgggctta agagaccgca ttggagaatt 660
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<210> 5026

<211> 718

<212> DNA

<213> Homo sapiens

<400> 5026

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cctcagtgtg taggtgccat gacaaatcaa ggcttttgat gcagatgcta tgctttcact  180
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tcaaattgtg atattaaaat ggataggaca taatttccca actagtacag tatgctagtg  600
ccaaccttat accactgttg taggacctat gaaaaataat ttttaaaaag ctgtaaaagt  660
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<210> 5027

<211> 715

<212> DNA

<213> Homo sapiens

<400> 5027

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tcctccgatg gttgcagcag agggatcatg acggggaaaa agtcctcccg ggagaaacgg  120
cgcaaacgta gcagtcagga ggccggctgca gcgctcgcgg ccccggacat cgtacccgcg  180
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tcttccagcg tctcgggctc cttgcagcag gaaactaaat atattttgcc aactttggaa 420
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 atagaagaaa ttaaaaaact atgccaggaa cagttagagc tcctgtctga aaaaaaatt 660
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<210> 5028

<211> 705

<212> DNA

<213> Homo sapiens

<400> 5028

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<210> 5029

<211> 519

<212> DNA

<213> Homo sapiens

<400> 5029

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gatctacagc taagacgcca ggaacccttg gaagcctaga aatggagaac ctgaagtctg  180
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<210> 5030

<211> 653

<212> DNA

<213> Homo sapiens

<400> 5030

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gacagaaggc actgcagcct gaaatggcag agtctggtgc tgacgatccg cgagaagatc  180
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agaatacagc cgcaaggagg aggantgcc a ggcaggggct gccganatgc gggagcaatt  540
ctaccactcc tgcaagcagt atggcatcac gggcgaaaaa tgtccgagga gaactgctgg  600

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ccctgntgaa ggacctgccg agtcaactgg gctgaaattg gggcancggn tca 653

<210> 5031

<211> 752

<212> DNA

<213> Homo sapiens

<400> 5031

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<210> 5032

<211> 686

<212> DNA

<213> Homo sapiens

<400> 5032

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 tttttgtttg gttcacatat tgataatggt ctatcaactt ctaacagttc aatnagatgt 600
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<210> 5033

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5033

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 ctgccactac tacagccctg ggctcggctg ccggcgccac cgaaaccggt gcacctttgc 480
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<211> 517

<212> DNA

<213> Homo sapiens

<400> 5034

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tcccaaagtg ctgggattgt agacataagc cacctcacc agcctatgaa tatctttcta 420
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<210> 5035

<211> 539

<212> DNA

<213> Homo sapiens

<400> 5035

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cgatgagagt aaacgggcca gcatcccgtg caccagcggg gtggaccagc gggagtctgc 420
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acacaggccc ccgagcagga cgccctcgtg cgcangcgcg ggggtgtacgt tggccggggg 480
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<210> 5036

<211> 622

<212> DNA

<213> Homo sapiens

<400> 5036

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tcccagctgc atagaggggtg tcaccattat tttagataat agccatggcc ggtgcccact 180
ttaatcactt ttccaatcac ttttcaactga ttgcttctaa ggcacttgat ttcagatgtc 240
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tctatgcaa tggagacctc ctcttctctt ctaccactg gtantaaggn ngaaaaacag 600
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<210> 5037

<211> 655

<212> DNA

<213> Homo sapiens

<400> 5037

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 ggccattgcc aatgtccac ccattcagga gaagaggcac tggaagcgct acatttanct 600
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<210> 5038

<211> 595

<212> DNA

<213> Homo sapiens

<400> 5038

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 ggtgtacatt ttgatgttga acatcagttt tcatgtagac ttaggactca tgtgcagtaa 180
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<210> 5039

<211> 638

<212> DNA

<213> Homo sapiens

<400> 5039

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gctcatcagt ctctgtaaat attgggtgca gaatttaggg gcagaagcaa tggcttgtga   180
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aaaatagtag taacanatat atatatatat atacacacac acacacagaa atatatat   540
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<210> 5040

<211> 698

<212> DNA

<213> Homo sapiens

<400> 5040

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ttggggggagc tcctgctggc aactatatgt atggttgtgc tggacatggt gttggcttgg   360
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attggtcagc atgggggagg actgttggtc tctgcaaaaa tgtttaaaaa agaaattggt 480
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<210> 5041

<211> 609

<212> DNA

<213> Homo sapiens

<400> 5041

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gcanacagct gacccggcga gaaatggaaa tagaaaagtc tttatttcag ggagctgac 540
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<210> 5042

<211> 653

<212> DNA

<213> Homo sapiens

<400> 5042

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 catatttate aggtcagata actgtgctta accgtgcata gtgggccagt catcatttat 540
 gtgtcatctt ctttatttgc tttgtgaaca ctcaccacag cacctatttt tctctggtat 600
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<210> 5043

<211> 686

<212> DNA

<213> Homo sapiens

<400> 5043

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 aatggctctc ttgaaatttt gcactttcac ccttattaag gaaattataa ttagttacta 420
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<210> 5044

<211> 714

<212> DNA

<213> Homo sapiens

<400> 5044

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tccctcttct ttcttacttc cataagtatg tatgtgcaga gattgaaaaa taaccttgag 660
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<210> 5045

<211> 640

<212> DNA

<213> Homo sapiens

<400> 5045

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<210> 5046

<211> 506

<212> DNA

<213> Homo sapiens

<400> 5046

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<210> 5047

<211> 785

<212> DNA

<213> Homo sapiens

<400> 5047

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<210> 5048

<211> 679

<212> DNA

<213> Homo sapiens

<400> 5048

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<210> 5049

<211> 806

<212> DNA

<213> Homo sapiens

<400> 5049

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<210> 5050

<211> 626

<212> DNA

<213> Homo sapiens

<400> 5050

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<210> 5051

<211> 747

<212> DNA

<213> Homo sapiens

<400> 5051

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<210> 5052

<211> 623

<212> DNA

<213> Homo sapiens

<400> 5052

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<210> 5053

<211> 668

<212> DNA

<213> Homo sapiens

<400> 5053

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<210> 5054

<211> 621

<212> DNA

<213> Homo sapiens

<400> 5054

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atcatgtaaa ttagataata tccataaaaag gaataataata catgattgga tgtttcatta 540
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<210> 5055

<211> 727

<212> DNA

<213> Homo sapiens

<400> 5055

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<210> 5056

<211> 712

<212> DNA

<213> Homo sapiens

<400> 5056

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gaanggcatt tgttcggaga caancaagaa gcagcaatgc tcaaaaccac aaaactctgg  660
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<210> 5057

<211> 817

<212> DNA

<213> Homo sapiens

<400> 5057

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tttgaactgt gtgttggtag gaggtactcc tgacaatttt cactttacaa acatttattt  180
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aaattgctta cttatttttg ttgatttttc ttaaatgtat gtatagctta catttatatc  300
aatattcaac attagaagtg tttcaagtct tcacttagaa atttgttgat gtttttgtga  360
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<210> 5058

<211> 691

<212> DNA

<213> Homo sapiens

<400> 5058

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<210> 5059

<211> 492

<212> DNA

<213> Homo sapiens

<400> 5059

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<210> 5060

<211> 801

<212> DNA

<213> Homo sapiens

<400> 5060

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gccaggcccg aggcctgtca cccatgagac tgcgagatcc agagcccag aagaggcacg 480
    
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<210> 5061

<211> 762

<212> DNA

<213> Homo sapiens

<400> 5061

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<210> 5062

<211> 489

<212> DNA

<213> Homo sapiens

<400> 5062

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agtagagatg agatttcacc atgttgccca ggggtggtttt gaactcttga tctcaggcat  420
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ccacncang                                     489
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<210> 5063

<211> 850

<212> DNA

<213> Homo sapiens

<400> 5063

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catggctcaa gtctgggaaa ctgggccag ggctcaggaa ttgtgtccag aggaattcat  240
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aagccatccc cacactgaaa gtcatagtta tgtctttgca atagatgaag tacttgaaaa 600
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<210> 5064

<211> 740

<212> DNA

<213> Homo sapiens

<400> 5064

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<210> 5065

<211> 786

<212> DNA

<213> Homo sapiens

<400> 5065

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<210> 5066

<211> 838

<212> DNA

<213> Homo sapiens

<400> 5066

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<210> 5067

<211> 861

<212> DNA

<213> Homo sapiens

<400> 5067

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<210> 5068

<211> 740

<212> DNA

<213> Homo sapiens

<400> 5068

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<210> 5069

<211> 756

<212> DNA

<213> Homo sapiens

<400> 5069

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<210> 5070

<211> 820

<212> DNA

<213> Homo sapiens

<400> 5070

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<210> 5071

<211> 705

<212> DNA

<213> Homo sapiens

<400> 5071

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<210> 5072

<211> 840

<212> DNA

<213> Homo sapiens

<400> 5072

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<210> 5073

<211> 761

<212> DNA

<213> Homo sapiens

<400> 5073

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<210> 5074

<211> 792

<212> DNA

<213> Homo sapiens

<400> 5074

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<210> 5075

<211> 789

<212> DNA

<213> Homo sapiens

<400> 5075

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<210> 5076

<211> 274

<212> DNA

<213> Homo sapiens

<400> 5076

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<210> 5077

<211> 814

<212> DNA

<213> Homo sapiens

<400> 5077

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<210> 5078

<211> 831

<212> DNA

<213> Homo sapiens

<400> 5078

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<210> 5079

<211> 734

<212> DNA

<213> Homo sapiens

<400> 5079

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<210> 5080

<211> 706

<212> DNA

<213> Homo sapiens

<400> 5080

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<210> 5081

<211> 720

<212> DNA

<213> Homo sapiens

<400> 5081

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cacttttcta gcaagaggtc tccttgnctg tattcaagtg gggggaggta gaatggggag   660
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<210> 5082

<211> 860

<212> DNA

<213> Homo sapiens

<400> 5082

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<210> 5083

<211> 818

<212> DNA

<213> Homo sapiens

<400> 5083

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<210> 5084

<211> 799

<212> DNA

<213> Homo sapiens

<400> 5084

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<210> 5085

<211> 800

<212> DNA

<213> Homo sapiens

<400> 5085

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<210> 5086

<211> 807

<212> DNA

<213> Homo sapiens

<400> 5086

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<210> 5087

<211> 685

<212> DNA

<213> Homo sapiens

<400> 5087

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<210> 5088

<211> 709

<212> DNA

<213> Homo sapiens

<400> 5088

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<211> 794

<212> DNA

<213> Homo sapiens

<400> 5089

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<210> 5090

<211> 738

<212> DNA

<213> Homo sapiens

<400> 5090

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<210> 5091

<211> 778

<212> DNA

<213> Homo sapiens

<400> 5091

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<210> 5092

<211> 837

<212> DNA

<213> Homo sapiens

<400> 5092

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<210> 5093

<211> 713

<212> DNA

<213> Homo sapiens

<400> 5093

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<212> DNA

<213> Homo sapiens

<400> 5094

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<210> 5095

<211> 775

<212> DNA

<213> Homo sapiens

<400> 5095

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<211> 734

<212> DNA

<213> Homo sapiens

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<210> 5097

<211> 700

<212> DNA

<213> Homo sapiens

<400> 5097

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<211> 761

<212> DNA

<213> Homo sapiens

<400> 5098

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<210> 5099

<211> 761

<212> DNA

<213> Homo sapiens

<400> 5099

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<211> 838

<212> DNA

<213> Homo sapiens

<400> 5100

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<210> 5101

<211> 326

<212> DNA

<213> Homo sapiens

<400> 5101

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<210> 5102

<211> 767

<212> DNA

<213> Homo sapiens

<400> 5102

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<210> 5103

<211> 884

<212> DNA

<213> Homo sapiens

<400> 5103

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<211> 849

<212> DNA

<213> Homo sapiens

<400> 5104

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<211> 806

<212> DNA

<213> Homo sapiens

<400> 5105

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<211> 814

<212> DNA

<213> Homo sapiens

<400> 5106

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<210> 5107

<211> 776

<212> DNA

<213> Homo sapiens

<400> 5107

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<210> 5108

<211> 833

<212> DNA

<213> Homo sapiens

<400> 5108

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<210> 5109

<211> 838

<212> DNA

<213> Homo sapiens

<400> 5109

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<210> 5110

<211> 849

<212> DNA

<213> Homo sapiens

<400> 5110

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<210> 5111

<211> 868

<212> DNA

<213> Homo sapiens

<400> 5111

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<210> 5112

<211> 778

<212> DNA

<213> Homo sapiens

<400> 5112

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<210> 5113

<211> 783

<212> DNA

<213> Homo sapiens

<400> 5113

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<210> 5114

<211> 868

<212> DNA

<213> Homo sapiens

<400> 5114

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<210> 5115

<211> 821

<212> DNA

<213> Homo sapiens

<400> 5115

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<210> 5116

<211> 812

<212> DNA

<213> Homo sapiens

<400> 5116

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<210> 5117

<211> 467

<212> DNA

<213> Homo sapiens

<400> 5117

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<210> 5118

<211> 854

<212> DNA

<213> Homo sapiens

<400> 5118

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<210> 5119

<211> 827

<212> DNA

<213> Homo sapiens

<400> 5119

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<210> 5120

<211> 451

<212> DNA

<213> Homo sapiens

<400> 5120

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 taccgggggg tcangagcct aggggactct tgcacttcac atccagccat gctaattaca 420
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<210> 5121

<211> 817

<212> DNA

<213> Homo sapiens

<400> 5121

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ccacactgga cagagagcag tggcccaa ataccctcac tctgttagcc caagaccaag   180
gactccagcc cttatcagtc aagaaacagc tcagcattca gatcagtgac atcaacgaca  240
atgcacctgt gtttgagaaa agcaggtatg aagtctccac gcgggaaaac aacttaccct  300
ctcttcacct cattaccatc aaggctcatg atgcagactt gggcattaat ggaaaagtct  360
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tcgcagagga cagcgggcaa cccatgcttg catccagtgt ctctgtgtgg gtcagcctct  540
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gcctctccgt gcttgtgaat gccttcacag gccacctgct ggtgcccac gagactccca  660
atggcttggg cccagcgggc actgacacac cttcactggc cactcacagc ttccgggcat  720
tccttttgac aaccattgng gcaagagatg canactcggg ggccaaatgg gaaagcccct  780
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<210> 5122

<211> 831

<212> DNA

<213> Homo sapiens

<400> 5122

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atcaagttgc tataaacatc gaaaggggcg tgacttttgt gagggggtca ataccaggac   60
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aatcccagca ttttgggagg ccgaggtgga aggatcactt gagtccagga gttcaagacc  180
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gtgggtgtgca cctgtggtct cagctacttg ggaggctgaa ctggaaggct gcttgagcct  300
gagaagtcga ggctgcagtc agccgaaatt gtgccactgg actccagcct gggcaacaga  360
gtgagaccac catctcaaaa aaaaaaaaaa aaaaaaaaaa gaagactttg gcacattaaa  420

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aaatatagca atatttcatc ttgctaaaac aattatttca cactaaccta ttcagaacaa 480
 aaatagagaa gaggtaaaaa tagtttctaa gtagccaaat agatgacaga cagtcattgca 540
 ttccagatgg aatgggcagt cctgcctgca gcgtcactct ggttttgctt aaatctcata 600
 cacttcactt gtaagtatct tgnatcttta ttaggatctc actttacctc attttactta 660
 caagtttaac tagattggna tcctagttac tattttccat agcaaaggag aagaggaagg 720
 aagtttgta aaggaagtca cacttgacaa aacccaaatt ttaaaaagtg accccttgac 780
 aaaccncccg anggaaggga aaaacccaaa ccaaaattta aaaccaaccn g 831

<210> 5123

<211> 820

<212> DNA

<213> Homo sapiens

<400> 5123

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 tggccttgaa cttgttagct caagtgatcc tgcctcagcc tcccaaagtg ttgggattct 180
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 cccctaggct ccttcctctg aacattccta gcctaggagc tgggtggtag gaggtagcat 660
 gctgggaagc aggcacattc ctatactgg ggtcccaaga gagccattgg gtgggtgggc 720
 agacagacat acagtttaat anggccaggg agaaactgnc ttccttcttt gctcttttag 780
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<210> 5124

<211> 610

<212> DNA

<213> Homo sapiens

<400> 5124

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tattcccact ctcttccagc acaacatgcc tttctggagg atcacaacc atggagacct 180
agtatccctt caccaggctt tagagcttga ttttctctaa gaactggaat gaggagcctt 240
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tgctaagagt gagctgcagc cccgtgttca tctcataca gaagcaggga cagttggata 540
gagagaacaa tggactcact gaagctacag tgcttttaat tnttctgtgt tntggttttg 600
gtnttttgtt                                     610
    
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<210> 5125

<211> 736

<212> DNA

<213> Homo sapiens

<400> 5125

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ggaagccgag aggcccggga cagcctggca gaggccactc gggggcatcg cgagtacacg 180
gagagcatgt gtctgctgga gagcgagctg gaggcacagc tgggcgagtt tcatctccga 240
atgaaagggc tggctggctt cgccaggctg tgtgtaggcg atcagtatga gatctgcatg 300
    
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aaatatgggc gtcagcgctg gaaactacgg ggccgaattg agggtagtgg aaagcagggtg 360
 tgggacagtt aagaaacat ctttctccct ctactcacgg aatttctgtc tattaagggtg 420
 acagaactga agggcctggc caaccatgtg gttgtgggca gtgtctcctg tgagaccaag 480
 gacctgtttg cgcacctgcc ccaggttgtg gctgtggata tcaatgacct tgggtaccatc 540
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 tcttctgtca acaaggcctt cacagtcacc aagcgcttct tcacctatag ccagagccca 660
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<210> 5126

<211> 623

<212> DNA

<213> Homo sapiens

<400> 5126

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 cgaccctgac cgcggggtgg gccggacca tgaatctcg gtccggaact cgggctcctg 180
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 cataaccgcc cagatcttct cctacctggg cctgaacttc gcgcgtgcc acgcggctag 540
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<210> 5127

<211> 735

<212> DNA

<213> Homo sapiens

<400> 5127

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cagctcttca tgcagtttat tgatggtcga ttagatcttc tcaattccgg cgaaggtttc 180
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catcagtggc tctccactgt ccggaagga agtggagcaa ttctgaatac tgtaaagacc 300
aaagcaaate cggccatgaa gactgtctac aagtctgcaa aagatcatgc aaaaatggga 360
ataaaagagg tgaaaaaccg cttgaagcaa aaggacattg ccgagaatgg ctgcgcccc 420
acccagaag agcagctgcc aaagactgca ccgtccccac tggaggaggc caaggacccc 480
aagctccgag aagaccggcg gccaatcaca gtccactttg gacaggtgcg cccacctgt 540
ccacatgttg ttaagagacc aaagagcaac atcgagctgg aaggccggag gacgtctgtg 600
cccgagccct gagcaaaaca ccattgcaac accagctaca cttcacatnc tacagaaaag 660
cattacccat ttgcggnca agttcccgac aagangctgg acctcttcat cacattgact 720
tacgccgttg ctttt                                     735

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<210> 5128

<211> 840

<212> DNA

<213> Homo sapiens

<400> 5128

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cttcttacag atactccaag tatcacagct aaattaatta gtgaacaaaa agatgacaaa 180
gaaaagaaaa accatgaaga gaaagaaaaa gttaaagcgg aaaatggatt tcaagacaat 240
tacagtgttg ttgttgctc tgggctgaag tctcaatcta aacgtgctgt gtcagctaca 300

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ccacctcgcc caccatccag gagggggagg acaatacctg ataaaatagg aagtacttca 360
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 gttataacag accccagtct atcaaaaaca gattcttata aaagactaca ccctgaaaaa 600
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 tgcattgatg ggatactgga tgaatctttg cttgaaacct gtccaattca gtcaccatta 720
 caagtttttg cagaaatggg tggactggct cttattgctg aaagactacc catgctatat 780
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<210> 5129

<211> 545

<212> DNA

<213> Homo sapiens

<400> 5129

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 atgatttcgt tcttttttta tggctgcctc ttttgtttct taaatctgaa ttttcatgtg 180
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 tgagtcagag gttcgatggg ctggggtgag gtgggccaca caattaccac acccactccc 420
 aggcctattc ccggtgatct aagcacacag aagcaggctg gtacttangg aagaaggcac 480
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<210> 5130

<211> 770

<212> DNA

<213> Homo sapiens

<400> 5130

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aattcttgta ttggaatcct ttatactttg ggcgaggaca gcacttctcc tgatgtgcag   60
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catgtggaac ctaccctttc tcttattata atgttggtgt taaatgtgcc tcctactcat  180
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gagctacaag gtaacagtac ttcaatttct accttaagga cttcctgtct actgggttgt  300
gcagtaatgc aagataacct agactgcctt gttcaagctc aggccatctc ttgccttcag  360
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tatatgctta catctatggc agtggaaaaa ctcttcctgt ggntaaagct ttgtaaagat  720
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<210> 5131

<211> 435

<212> DNA

<213> Homo sapiens

<400> 5131

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caaaaaattg ggtgggcatg atggcactgg cctgtagtct gagctcggga ggatcacttg   60
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acagagcaag accctgtctc aaaaaacaag aaaaatttgg ttctttttct ttttttttga  180
gacataatct cactctgttg cctaggctgg agtgtaatgg cacgatctcg gctcactgca  240
acctccacct cctgggttta agtgattctc ctgcctcagc ctccctgagta gctgggatta  300

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caggtacatg ccaccatgcc cagctaattt ttgtatTTTT agtagagatg gggtttcacc 360
atgttggTca ngctggTctc gaactcctga cctcgtgatc cgccacctc ggncTctcaa 420
agngctggga ttaca 435

<210> 5132

<211> 835

<212> DNA

<213> Homo sapiens

<400> 5132

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tatagaactg gaaaagcaac catttccaaa aaagTttcct ttctctgaat ttgtgccaaa 180
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cacatncttg atgcaacttt tgnTggaagc tgaagtgcng cagctcacct tgggagcatt 780
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<210> 5133

<211> 664

<212> DNA

<213> Homo sapiens

<400> 5133

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 gcaagatggg gtggcatgtt gtcattctca gccatttttt ttttcttcga ttgcattata 180
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 cctgaggtca ggagttcaag accagcctgg cgaacacagt gaaaccctgt ctctactaca 480
 aatataaaaa aaagaaaaaa cattagctgg atgtggtggt gcatgcctgt aatcccagct 540
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<210> 5134

<211> 716

<212> DNA

<213> Homo sapiens

<400> 5134

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 tacgagctgg actgctccca tgaccactca gatgtggtgc caggaatgtt ctggctgaca 180
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 gccattcttc aaagtccaac tgaaatcccc ttcctaagga cttccttctt ttgcaccana 660
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<210> 5135

<211> 575

<212> DNA

<213> Homo sapiens

<400> 5135

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 cttggtctgt gcatgaggaa gaggatgcc agcttcttgt cttggctctc tgttctctga 180
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<210> 5136

<211> 776

<212> DNA

<213> Homo sapiens

<400> 5136

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 aggaagtgga tcaaagatgg cccttnccta aaagtctttg gatttgtggc ccggaacang 720
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<210> 5137

<211> 791

<212> DNA

<213> Homo sapiens

<400> 5137

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 taaatatatt tctttctcta gaaatgttat ttggggacaa atgaatgaat ccctgttggg 180
 aaaaaagaac ctgctgcata tcatccatat ttatttttat tattattttt ttgagatgg 240
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 gccatgctgg tcttgaactc ctgacctcaa gtgatccacc cgcctcgggt tctggaatta 480
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tgtgaaccag gattcccaca tgatggcgtc aatgctttcc aacctggacc acagccagcc 660
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<210> 5138

<211> 757

<212> DNA

<213> Homo sapiens

<400> 5138

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 tccctgttaa aaagccta at ggagaatata agtttgtgta ggacttgaag ggggtaatga 180
 ggcagtcatt cccatccacc caacactggt cccaagcttg tctgtgctca gatacctgga 240
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<211> 821

<212> DNA

<213> Homo sapiens

<400> 5139

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<211> 840

<212> DNA

<213> Homo sapiens

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<210> 5141

<211> 749

<212> DNA

<213> Homo sapiens

<400> 5141

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<212> DNA

<213> Homo sapiens

<400> 5142

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<210> 5143

<211> 668

<212> DNA

<213> Homo sapiens

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<210> 5144

<211> 749

<212> DNA

<213> Homo sapiens

<400> 5144

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<210> 5145

<211> 736

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<213> Homo sapiens

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<210> 5146

<211> 771

<212> DNA

<213> Homo sapiens

<400> 5146

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<211> 670

<212> DNA

<213> Homo sapiens

<400> 5147

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○

ccccaccacc atcaaaaggc ttggacacct ccatcatcgc tgatgagtac tgaatgttgg 600
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<210> 5148

<211> 731

<212> DNA

<213> Homo sapiens

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<400> 5148

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<211> 571

<212> DNA

<213> Homo sapiens

<400> 5149

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<210> 5150

<211> 730

<212> DNA

<213> Homo sapiens

<400> 5150

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<211> 719

<212> DNA

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<211> 856

<212> DNA

<213> Homo sapiens

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<211> 775

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 5155

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ggtagagggc ccagggttct gacctgggtg gatgacgggc aaatggtcct gaactctctg  600
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<210> 5156

<211> 851

<212> DNA

<213> Homo sapiens

<400> 5156

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gaggttgttc tgttgteccc agttccagaa ctgagggtatt cttcaaaact tcatgattct  180
ctctataatg aggattgtac ttccaacag cttggaactt acattcattc tatcagagat  240
cctgtccata acagagtcac cctggaactg agtaatggct ccgtgggttag gatcactatt  300
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ccaaaagaaa tagcagttca gatgcttgtc aagtgggtaca atgtccacag tgctccagga 420
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 gattcttcta cactttctct tactcacata cctgcaattt ttttcggtct tcacttgggt 780
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<210> 5157

<211> 715

<212> DNA

<213> Homo sapiens

<400> 5157

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 aggaccggag tgaggatgag gaagatgaac attcagagga ggtagaaaca agtgggaagtt 660
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<210> 5158

<211> 491

<212> DNA

<213> Homo sapiens

<400> 5158

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aggtgagatg cctgcggggg aagcagcagg agctaccacc tccaccagc cactgcattc 180
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tgcctggctt gtttgttttg tattaattac attttatag agagagatgg ggtcttactt 420
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<210> 5159

<211> 758

<212> DNA

<213> Homo sapiens

<400> 5159

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gaccgaattc actaccagtc aaccacact acaagaaaca tcaaatgagt cctccaagca 180
gaaggaaccc aataccagat gaaaatccag atctccacga ggaaatgaag aacaccagaa 240
atggatcggc cttttcttca aataagagca gttggaataa caaagctgtt cagttgtacc 300
cttggaatcc actgaaatcc tgggtaggga agctccagta ccaccaactg gaaagactgg 360
gaatgcctaa tagctggtac tggccattgt cgtaggcttt gtccactctg acaaactgaa 420

gatggggact cgactcacct tcgccagcca caggaggacc tccagacgag gttagggtcga 480
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 ccttgcggac aggacctaag tgagtagctg gtttccccta cttgccttcc gggcctgggt 660
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<210> 5160

<211> 649

<212> DNA

<213> Homo sapiens

<400> 5160

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 tcctgagggg atttattgat cttgtgctgc aggtggtgtg gcctgagggc aggtgtggct 360
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 gggcctcagg tccccccaa cagctccac ctgctcagcc acagcgtgga tgcgtcccgg 480
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 cagggagggt ctgaggctgg gctgcgggat tactcctttc ttgggaagca ngcaggggtg 600
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<210> 5161

<211> 742

<212> DNA

<213> Homo sapiens

<400> 5161

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tcctctggca caccctccgc tctggggccc cactctcacc tcgttcagtt gacctgaagg 180
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ggcagcccag agggccatag ctaaagcgtg actcactcag agccgatcct actgacacac 540
gtccccctcc tccgtcccac tctgccattg cccctcctg tcaggaccag actaggggggt 600
ctgggactcc cggggagcca tgcaccccc accgtgggtg tgggtggcang gcaggggagt 660
gntgccaaac ctcaggagga cttggagctg cccgtgccac ttinctgtga gagactccag 720
tgcgcctgcc gttaaccctg ca 742

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<210> 5162

<211> 743

<212> DNA

<213> Homo sapiens

<400> 5162

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cagcaaaagt tgatgattct aatgtagca atcctgtcta taggaataac ggggttgtga 180
atcaatttgt aaacagtctt tggaccctaa agtcagaaat cctatctaca ggaacaactg 240
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gtgcagccca attaatgctt aattataact ctatttcagt ccataatgtg gcatgcaatt 360
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ccagttgctg tttttaacta agtgatttac tttgtgctgg agctgagctg cgccaagctg 480
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 cactagtac catttgctgc acaccagct ctctcttaag cacttttcaa ggatgctctt 600
 gnttaatcct catgacaacc ttatgaggca gatactggta ttctctcan gtgaggaaac 660
 cgaggcacan ggagattaaa taacttgcc aaggctactc catctgancc gggatttcaa 720
 cccaagtagt cttgcttgca aaa 743

<210> 5163

<211> 781

<212> DNA

<213> Homo sapiens

<400> 5163

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 gaaacggagc agaaggagtt ggaggaggag gaggtggagg aggaggaggg aaaagaaatg 180
 gagcagcagg aggagggaaa agaaatggaa gaggaggagc aggaggaaaa tgaaatggag 240
 gaggaggagg aggaaaaaga aatggaggag gaaaaagaaa caggaggagg aaaaagaaac 300
 ggaggaggaa gaggaggagg aggacaaaga aacagccagg ccggacgtgg tggctcacc 360
 ctgtagtccc agctgctcgg gaggtgagg cagaagaatc gcttcaacc gggaggcaga 420
 gtttgcgtga gccgagatcg tgccactgca ctccagcctg gagacagagt gagactccat 480
 ctcatctcaa aaaaaacaaa agaaaacaaa acanaacaaa aaaaacagcc aggagccgtg 540
 gctcacgcct gtaatcctag caatttggga ggcgataaga attattgaaa tgcagtaaga 600
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 ctacactact cacacaagtt ccacattctg tatanttaaa atggccagca gggcggaggg 720
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 a 781

<210> 5164

<211> 735

<212> DNA

<213> Homo sapiens

<400> 5164

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tcagccacgc ggtgtcatcc tcctcccaag aggtctggct ggggcttgcg ggcagtttag  180
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gaaccggagg ggagggtgag tggacagact ggtttggcag ctctggctgg ctctggaagg  660
tggggagttd ggtgggaaga aagccagggc tacacttgta ncaggaccag cangtgtcan  720
gactgggaca tggaa                                     735

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<210> 5165

<211> 767

<212> DNA

<213> Homo sapiens

<400> 5165

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gcgggtgact agcatgcaga taccatgct ctgactttct gcccctccac tgacatggcc  120
caccggggtg gggagaggga ctccagact tcagctcgac gcatgggcac ctcgctgctc  180
ttccagcttd cagtgcata acgggagctg gacctggttd ttctggatca tagctatgcc  240

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aagccttgga gtgcccaccc agatgccagt agtgcccgcc ccacccgcat gctctttgtc 300
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 gcccggtcct atttcctcac ctgtttacag tgaatcagac gtcccaatag atgtggagac 420
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 gagccagtgc tgcgccgtgt tgctgtggac aagtgtgcaa gganagtgcc ggangctctg 720
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<210> 5166

<211> 749

<212> DNA

<213> Homo sapiens

<400> 5166

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 aaagcagtag ttctcttccc cagaaaggac tgggggtcaaa ggatgcacaa cagtaacgac 120
 tttgtggtga ggttggcaga gaatatacga tggggagctt gatgtgtgag aagtggaaag 180
 aaggtcatct tggatgattg gaggacaaca tcccgcaaac gacaacaggg aaagcacagt 240
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 cccagagagg ttaagtgact tgcccaggat catacagcta atgagtagtc aggaaaatat 480
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 agggttggcc tgccatgtgt tggagtgggc aggatctttg gtgtgacaaa ggtagataat 600
 ttgtctagcc aagttttgag atatcacaaa gctccagtgc cttaccaggc agaagttata 660
 ttcagaatga ttacaagttg ctctatgata gaangtgctc aaataaatgg tantataggc 720
 cacactgnat tctatgctac agggatttc 749

<210> 5167

<211> 832

<212> DNA

<213> Homo sapiens

<400> 5167

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 agtttttTgt ttctaattt gaatattaat tctccttatt ccaattgtga gattacccca 180
 gcacttaatt attttgattt ctctttctct atcctatgaa ttcttgTTTT atttttatcg 240
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 gctctgcttc catggcatca cctgccaatt cttttgtggg aacgccgtat tggatggccc 420
 cagaagtaat tttagccatg gatgaaggac aatatgatgg caaagtagat gtgtggtctc 480
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 ctgattattt tcgcaacttt gtagattctt gcctccagaa aatccctcaa gatcgaccta 660
 catcagagga acttttaaag cacatatTTg ttcttcggga gcgccctgaa accgtgttaa 720
 tagatctcat tcagangaca aaggatgcag taagagagct ggacaatctg cagtatcgaa 780
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<210> 5168

<211> 775

<212> DNA

<213> Homo sapiens

<400> 5168

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 tgcagcaaat agaattgatg aattattgng agaaccctaa cccagtanag tgctaggaca 720
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<210> 5169

<211> 809

<212> DNA

<213> Homo sapiens

<400> 5169

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caagaggccc cacagggagc agagactgct ttaatccctg ctgacatcac ggaaaagcaa 660
cagagccttt tcaactttgt cactatgtcc ccttgaacat tatgtgggag aacaccaagg 720
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<210> 5170

<211> 811

<212> DNA

<213> Homo sapiens

<400> 5170

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<210> 5171

<211> 865

<212> DNA

<213> Homo sapiens

<400> 5171

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<210> 5172

<211> 780

<212> DNA

<213> Homo sapiens

<400> 5172

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<211> 874

<212> DNA

<213> Homo sapiens

<400> 5173

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<211> 730

<212> DNA

<213> Homo sapiens

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<211> 800

<212> DNA

<213> Homo sapiens

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<210> 5176

<211> 757

<212> DNA

<213> Homo sapiens

<400> 5176

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<210> 5177

<211> 786

<212> DNA

<213> Homo sapiens

<400> 5177

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<210> 5178

<211> 863

<212> DNA

<213> Homo sapiens

<400> 5178

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<211> 747

<212> DNA

<213> Homo sapiens

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<211> 743

<212> DNA

<213> Homo sapiens

<400> 5180

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743

<210> 5181

<211> 745

<212> DNA

<213> Homo sapiens

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<210> 5182

<211> 730

<212> DNA

<213> Homo sapiens

<400> 5182

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<211> 788

<212> DNA

<213> Homo sapiens

<400> 5183

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<211> 727

<212> DNA

<213> Homo sapiens

<400> 5184

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<211> 770

<212> DNA

<213> Homo sapiens

<400> 5185

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<210> 5186

<211> 780

<212> DNA

<213> Homo sapiens

<400> 5186

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<211> 701

<212> DNA

<213> Homo sapiens

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<210> 5188

<211> 734

<212> DNA

<213> Homo sapiens

<400> 5188

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<211> 680

<212> DNA

<213> Homo sapiens

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 ntttgaagag acaggggaca cgctctatgc ccnctattcc acacattttc agctgcagaa 600
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<210> 5190

<211> 745

<212> DNA

<213> Homo sapiens

<400> 5190

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<210> 5191

<211> 669

<212> DNA

<213> Homo sapiens

<400> 5191

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tgtccttcgt cccagccagc tttgtcgtat tcctgatcca ggagcgggtc agcaaagcaa  180
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cctttgtgct ggagctgttc accgacaata agctgaataa tatcaatgat atcctgaagc  540
cgtgttcttg atcttccaca tttttgcctg ggacgagggc tcatcgacat ggtgaaaaac  600
caggcaatgg ctgatgccct ggaaaggntn ggggagaatc gctttngca ccattatctt  660
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<210> 5192

<211> 785

<212> DNA

<213> Homo sapiens

<400> 5192

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ttagagaaaa gaaagaagcg gcgggatcag cccttggaaac agagcaactc tgatgtagag  180
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 caagctgcct tggaagaggg aggaagtaac agtttagtaa ctctactga agctggaagt 540
 ctagacagtt caggagaaaa caggccatta acagggtctg acccactgtg gtgtcaatta 600
 ctggatccca tgtcaaccgt gctgcatcta aatccccaaa accaaaaagt ntctagttac 660
 agaatggttg aatgacaaag cagagaagca agaatgccct gttgagtgcc tttcgtatca 720
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<210> 5193

<211> 882

<212> DNA

<213> Homo sapiens

<400> 5193

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 aactggaaac agacaaagaa acactctcct tctgccacat ttgttttgag ctaaattattg 180
 aggggggtacc aaagtctgat ctcttgaca ccaaatcatt aaggggcat aaagactgct 240
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 cttatgaaga agttaaaacc attttgagta agaagataaa ctggattgtg cagtatgcac 360
 aaaataagga tctggattca gattctgaat gttctaataaa ccccagcat catctgttta 420
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 caatctctag tccagaggct aatgtccaga ccagttatc acattacagc agagangaat 720
 tgaattcgat gactcttggt gangtagaac aactgaatgc aaaagctcta cgcaattccg 780
 gaagtttttg aaagtacctt accaagtgc agaaaagatc ttggcctaca gtcattgccg 840

①

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882

<210> 5194

<211> 690

<212> DNA

<213> Homo sapiens

<400> 5194

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②

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taatgatggg gccaaagctga gctttggggg tgaagccatc agctgttccc atctccctct 180

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atatagattg atttctccac taatttatct acaggaaaat cagacgcctg atttgccact 480

aaaatttggga catgtcagat ttagtctatt caattcacta agctttactt ccagtttctt 540

agtagggaga gtctgtctct tggagcataa tttattcagc tgcaatagat ggtactcttg 600

③

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aaggtgatta tcattccttct ttctncctca 690

<210> 5195

<211> 641

<212> DNA

<213> Homo sapiens

<400> 5195

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aggcagaggc tgcagtgaac cgagatcatg tcaactgtact ccagtctggg cgacacagca 120

agaccctgtc tccaaaaaaa aaaaaaaaaa agttggggga agcattccat gtgcagatgg 180
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<210> 5196

<211> 684

<212> DNA

<213> Homo sapiens

<400> 5196

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 ggactactgc ctgcacgtgc tcaaataact gctggaatat tggaagagcc aacagaatga 180
 cgaggagcct gtggctacca gccagttgct gaaaccacat actacctct cccacactga 240
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 cttcatctgt ggatccaaag agaagtaccg ncagctccgg gatttgcaca ccctggactc 540
 tcacgtgcgt gggatcaaga agctgctaga agagcagggg atattcctcc gggcaagtgt 600
 ggntacagnc aagctcaagc tccgccttgc aatatgacac actcatcagc ctgatggagc 660
 acctgaaagc ctgtgcanag attg 684

<210> 5197

<211> 729

<212> DNA

<213> Homo sapiens

<400> 5197

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gcctgtccct cctgaccca ggattatagt ggcgaggcag ggtgttagcc aagcggattg 180
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cgaatcaagc agagcatcga cttcaagtgc cgcacggcgt ggcggcgcaa gcantggggc 660
cagancctgg tgggtcaaaaa ctttttgcg gagaatgccc aacttaatcc ttctacttgg 720
cccttaaan 729

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<210> 5198

<211> 882

<212> DNA

<213> Homo sapiens

<400> 5198

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gtgtttccag ccatgcgctg tcagacagct ccaccgagtt catgcaccag attattgacc 240
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 atttaacagg gacctaatag aatttgcttt ttaccagcca aggcctttta caaagttcct 840
 tnancittatg agaacaaaaa cctggccaag gatgcttnag gc 882

<210> 5199

<211> 888

<212> DNA

<213> Homo sapiens

<400> 5199

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 ttgtaatgta aaagcagcca tagatggtat gtaaataaat gaacatggcc atgttctgat 180
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 aggtctgtca gaccctaaaa ccccatgccc tggaaatggt tttctaaggc tggcctgtgg 540
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atttttttgt caatattact ccacaaacta gattatttct tttggcctga taactcagga 660
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caggtattgg atctcctgga cctatccagt tcctttcttt tctatgctgn catatttttc 780
atctcttaat gctctgggtc tgggagcttc cangacagtt gctctttaca caactnaatt 840
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<210> 5200

<211> 793

<212> DNA

<213> Homo sapiens

<400> 5200

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ttaacctaga tctcagggat atccgttcta caataatgga agtagatttg tttactgtct 480
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cattctgtct tctgtgatta tacagcatgg catgggtgtc tcttgatac ttgtgttttg 600
aatatgagta acagtcttta gctgacttta ncattttgga gaaatctgga tatgnggctt 660
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<210> 5201

<211> 766

<212> DNA

<213> Homo sapiens

<400> 5201

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ttcaatcgtt ccagttcctt tcactatcat gaaaggactc acactggaga gaaaccctat 720
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<210> 5202

<211> 788

<212> DNA

<213> Homo sapiens

<400> 5202

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agaggggtcg aagggtccca aggctcccc cggtccaccg ccccatata acagctgaac 180
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cactatgggtg attacaccta catggctact aaactgtggg ctgggccaga cccatccctt 720
cctntcttac aatgccagcc gaagcccaaa cctacagatc ngggactggg tttcnaactg 780
gttccatt 788

<210> 5203

<211> 802

<212> DNA

<213> Homo sapiens

<400> 5203

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802

<210> 5204

<211> 725

<212> DNA

<213> Homo sapiens

<400> 5204

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 aaatagagat ggggtttcac tatgttgctt aggctggtct catactcggc ctcgagccat 180
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<210> 5205

<211> 662

<212> DNA

<213> Homo sapiens

<400> 5205

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caaaaaactg acatggaaat ctagacaggc cgatgtagac acatgcagaa tgaagggaaa 240
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aa 662

<210> 5206

<211> 746

<212> DNA

<213> Homo sapiens

<400> 5206

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<210> 5207

<211> 708

<212> DNA

<213> Homo sapiens

<400> 5207

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<210> 5208

<211> 645

<212> DNA

<213> Homo sapiens

<400> 5208

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<210> 5209

<211> 723

<212> DNA

<213> Homo sapiens

<400> 5209

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 aatccctccc ctgccagaa tgaaaactct agccaactct tgacttttcc atcactccaa 180
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ctg

723

<210> 5210

<211> 710

<212> DNA

<213> Homo sapiens

<400> 5210

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<210> 5211

<211> 816

<212> DNA

<213> Homo sapiens

<400> 5211

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<210> 5212

<211> 772

<212> DNA

<213> Homo sapiens

<400> 5212

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<210> 5213

<211> 700

<212> DNA

<213> Homo sapiens

<400> 5213

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acacagcaca gctgtgaggg caggagccag ccctggagtg tgccccangg aagacacagc 660
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<210> 5214

<211> 659

<212> DNA

<213> Homo sapiens

<400> 5214

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<210> 5215

<211> 812

<212> DNA

<213> Homo sapiens

<400> 5215

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acagcccggg acaatgcagc caacaagatt ctgaagaaca tgtgtgagca cagcaacacc 720
ctgggtccanc aggccatgat ggtgggtcgg aacccttggg gggctttata nancctggtc 780
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<210> 5216

<211> 660

<212> DNA

<213> Homo sapiens

<400> 5216

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tcttctggaa gtgcttcaaa ctcccttnca aacctagtcg cagttgggtt ttgnaacctt 660

<210> 5217

<211> 774

<212> DNA

<213> Homo sapiens

<400> 5217

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<210> 5218

<211> 780

<212> DNA

<213> Homo sapiens

<400> 5218

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<210> 5219

<211> 715

<212> DNA

<213> Homo sapiens

<400> 5219

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<210> 5220

<211> 755

<212> DNA

<213> Homo sapiens

<400> 5220

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<210> 5221

<211> 733

<212> DNA

<213> Homo sapiens

<400> 5221

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<210> 5222

<211> 583

<212> DNA

<213> Homo sapiens

<400> 5222

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<210> 5223

<211> 839

<212> DNA

<213> Homo sapiens

<400> 5223

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 ttctctcata aggcacattt ttncacact ttttaatttg gttttaccaa ttaaagtagt 780
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<210> 5224

<211> 745

<212> DNA

<213> Homo sapiens

<400> 5224

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<210> 5225

<211> 526

<212> DNA

<213> Homo sapiens

<400> 5225

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<210> 5226

<211> 713

<212> DNA

<213> Homo sapiens

<400> 5226

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tgatgatttt atactgtacc ttgctggcca gtgcacaaag tgaagctgaa aaggaaagga 180
 ttatgggaaa gatggaagct gaccagagc tatccaagtt cctctaccag cttcatgaaa 240
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 gtaagctcta ccgtgctgcc cttgagacgg ctganaatct gctgctgtgt gctcctactg 660
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<210> 5227

<211> 699

<212> DNA

<213> Homo sapiens

<400> 5227

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 cttctggcag taatggagtt gaagctctac agctgttaga acatgagcaa gctacaacac 180
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 caggcctcan tgttgtgtcc ggcataagtg caacctctga ngatatccc aatagattga 660
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<210> 5228

<211> 737

<212> DNA

<213> Homo sapiens

<400> 5228

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accagaattt tgaggtgatg cccaatggac ccctagttt tttcaccttc ccacagactt 660
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tncatcctga tgangca 737
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<210> 5229

<211> 867

<212> DNA

<213> Homo sapiens

<400> 5229

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gagcgggcaa acggggctga gaagcagcaa gaaggacaag ctcgggtagg agaaaagggg 180
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 aatccacaga gcctctgacc agcaccagtc ttgctgcctg tgctgggggc acttgggaaca 300
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<210> 5230

<211> 536

<212> DNA

<213> Homo sapiens

<400> 5230

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 tatttttgta tcaatgaggt ctcactgtgt tgcccagact ggtctcaaac tttggcctca 180
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<210> 5231

<211> 682

<212> DNA

<213> Homo sapiens

<400> 5231

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aagtcatact tggagaatcc cctgacagca gccaccaagg ccatgatgat cattaatggt 180
gatgaggaca gtgctgtctgc cctcggcctg ctctatgact actacaaggt tcctcgagac 240
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<210> 5232

<211> 560

<212> DNA

<213> Homo sapiens

<400> 5232

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catggccaga tcctgggcag ggaaatgatc ctttcaggag acaaccagag cccctcacca 180
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 cgggattccc ccacccatgc ccagaagccc tgaccttgct gtttctggaa aaagcatggg 360
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<210> 5233

<211> 770

<212> DNA

<213> Homo sapiens

<400> 5233

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 caaaggaagg gcactacaac cacaaccaat atcagtaaag ctttggaga cctctgctac 720
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<210> 5234

<211> 689

<212> DNA

<213> Homo sapiens

<400> 5234

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caccatcgct ggctctcacc cctcctcagg cagagcagga ggtggatgtg ttagatgtga 600
atgtccgtgg cccanattggc tgcaccccat tgatgntggc ttctcttcga ggaggcagct 660
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<210> 5235

<211> 719

<212> DNA

<213> Homo sapiens

<400> 5235

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aaaatgctaa tggacttttg aaattgaaat ctacaactcc cggtagtgct ttgcctgagt 360
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<210> 5236

<211> 733

<212> DNA

<213> Homo sapiens

<400> 5236

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<210> 5237

<211> 765

<212> DNA

<213> Homo sapiens

<400> 5237

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aagcagcatc atcttatgtc tacccaatgg tttgtggtcc ggnttanaga gctactgcag 720
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<210> 5238

<211> 759

<212> DNA

<213> Homo sapiens

<400> 5238

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<210> 5239

<211> 812

<212> DNA

<213> Homo sapiens

<400> 5239

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812

<210> 5240

<211> 785

<212> DNA

<213> Homo sapiens

<400> 5240

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 ttaacaaagc tgcccatagg ctgtaaattt tgaaaaactt aaagacattn nccaaaangc 720
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<210> 5241

<211> 804

<212> DNA

<213> Homo sapiens

<400> 5241

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<210> 5242

<211> 866

<212> DNA

<213> Homo sapiens

<400> 5242

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<210> 5243

<211> 842

<212> DNA

<213> Homo sapiens

<400> 5243

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<210> 5244

<211> 766

<212> DNA

<213> Homo sapiens

<400> 5244

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<210> 5245

<211> 746

<212> DNA

<213> Homo sapiens

<400> 5245

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<210> 5246

<211> 744

<212> DNA

<213> Homo sapiens

<400> 5246

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<210> 5247

<211> 712

<212> DNA

<213> Homo sapiens

<400> 5247

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<210> 5248

<211> 857

<212> DNA

<213> Homo sapiens

<400> 5248

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<210> 5249

<211> 686

<212> DNA

<213> Homo sapiens

<400> 5249

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<210> 5250

<211> 646

<212> DNA

<213> Homo sapiens

<400> 5250

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<210> 5251

<211> 733

<212> DNA

<213> Homo sapiens

<400> 5251

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 cacatgtncg ggagcctgta tgcttgccc cctctaccct tgagtgccca ggaggggatc 720
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<210> 5252

<211> 668

<212> DNA

<213> Homo sapiens

<400> 5252

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<210> 5253

<211> 690

<212> DNA

<213> Homo sapiens

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<211> 781

<212> DNA

<213> Homo sapiens

<400> 5254

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<211> 755

<212> DNA

<213> Homo sapiens

<400> 5255

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<210> 5256

<211> 724

<212> DNA

<213> Homo sapiens

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<210> 5257

<211> 740

<212> DNA

<213> Homo sapiens

<400> 5257

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<211> 788

<212> DNA

<213> Homo sapiens

<400> 5258

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 acaatggctg aaccaaagt ttcctcaaaa ctcacathtt tcccacat ttcanaaact 720
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<210> 5259

<211> 711

<212> DNA

<213> Homo sapiens

<400> 5259

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<210> 5260

<211> 823

<212> DNA

<213> Homo sapiens

<400> 5260

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<210> 5261

<211> 816

<212> DNA

<213> Homo sapiens

<400> 5261

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gggagtccaa agaccaaag tatcaagtaa ttctgaaatt cttgggtcc gccatctaa 180
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<210> 5262

<211> 777

<212> DNA

<213> Homo sapiens

<400> 5262

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tgcacaaaga aagcaagggc ggaccatggt ttgattccag attgaagtta gaaaaaacag 720
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<210> 5263

<211> 732

<212> DNA

<213> Homo sapiens

<400> 5263

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<210> 5264

<211> 765

<212> DNA

<213> Homo sapiens

<400> 5264

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<210> 5265

<211> 854

<212> DNA

<213> Homo sapiens

<400> 5265

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<210> 5266

<211> 685

<212> DNA

<213> Homo sapiens

<400> 5266

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<210> 5267

<211> 843

<212> DNA

<213> Homo sapiens

<400> 5267

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<210> 5268

<211> 739

<212> DNA

<213> Homo sapiens

<400> 5268

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<210> 5269

<211> 625

<212> DNA

<213> Homo sapiens

<400> 5269

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<210> 5270

<211> 774

<212> DNA

<213> Homo sapiens

<400> 5270

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gtttgggaat ttcattggga ttttcaaaac ttcaggggta gtagaaagag gggaagggtta  180
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<210> 5271

<211> 804

<212> DNA

<213> Homo sapiens

<400> 5271

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agaaactgaa aagaaggagc gatatatagt tatcagcaaa gtagatgaag aagaacgcaa  180
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<210> 5272

<211> 846

<212> DNA

<213> Homo sapiens

<400> 5272

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○

tgaaatgaat gaaaagtgtg ataaagaaat caaaggttnc tacacggggg tacaacagaa 780
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<210> 5273

<211> 810

<212> DNA

<213> Homo sapiens

○

<400> 5273

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○

<210> 5274

<211> 782

<212> DNA

<213> Homo sapiens

<400> 5274

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<210> 5275

<211> 666

<212> DNA

<213> Homo sapiens

<400> 5275

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aaaaataaaa aataacataa aaccaagtaa ggtagacaa aacagttgaa agtttaaaat 420
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 ctggaggagc agtggagatg gtggagagcc agagaacagg gccaccttcc aagaggcagc 600
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<210> 5276

<211> 840

<212> DNA

<213> Homo sapiens

<400> 5276

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 ctcagtttac agaccactga ccagaggcca ctccagggtg tcaggactaa gagaagtcac 180
 aaaacagcag atttcccaag agcagcggaa aatgaccag tcacagatat catttgagga 240
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 atccagcaac gaagagccat ggctcactgc taatcacata acacacacag gagtctat 720
 atgcatggaa tgtggcagat tttttttaac aagaagtcac aacttggtat tcaccagaga 780
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<210> 5277

<211> 797

<212> DNA

<213> Homo sapiens

<400> 5277

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gaggaggagg tatggggatg actcccaagg aagggtttg cctacctga tgggtttgct 180
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cattttttga gtgattt 797

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<210> 5278

<211> 820

<212> DNA

<213> Homo sapiens

<400> 5278

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gaaaaggaaa tcgcagctgt gatttctcct gaactggagc atctagataa aacccttccc 60
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atatatggtg acccagtga cttcctgccc cacctgcccc ggaaaagtgt ggtccattgc 180

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tctaagattt ggagctgcag gaaaagaatt acagttgagt acctccagca cattgtggaa 240
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<210> 5279

<211> 828

<212> DNA

<213> Homo sapiens

<400> 5279

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 gacaattagc acagcctgct gcctgtagct gagctgtgca gagccaggga acaggagtgc 180
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 aagaatgcag tcaccattca ggcatgcttt gttttgaagc aatgatcatg aacttaatat 480
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gagtagggga aacaagttag ggatggggaa gaatccaagc aaaggttcaa cttcaaaagt 720
tctggcctca gtctaattccc gagtgtaaatt taggcctcan agttgggtcta ccttcaggca 780
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<210> 5280

<211> 844

<212> DNA

<213> Homo sapiens

<400> 5280

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aaagagtatt gactttcctt tgacgaaggt gtatgtttgtg gaaggatcta aacgctcttc 180
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cttgggattc cctggttctg actgggtggt ctcaatgngg cattattctc atcctncact 780
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<210> 5281

<211> 665

<212> DNA

<213> Homo sapiens

<400> 5281

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gttacccatg gaattgtttt aaccatttcc ttttctaaac tctctagctt tcaactttac 480
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tatgagatag ctgagcttc tttgttatct caggcaggag gcgtttacat aacagatggt 600
tcctcagctg ggtgtgaggt atactctaag caggaggctt tttcagcctt ctctctcttt 660
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<210> 5282

<211> 809

<212> DNA

<213> Homo sapiens

<400> 5282

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acatggaggc caggtttgca gttgcaactc cagaggagct ggctgtcaac aatgacgact 180
gtgccatctg ttgggactcc atgcaggctg cgcggaaact gccctgtgga catcttttcc 240
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aacattcttg gcattacgca ggccagcaac tcccagctca atgcaatggc tcatcagatt 360
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tcagttgaaa taacaacaga caatatatta gaaggacgga ttcaagtacc ttttcctaca 480
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 ctggaggaga cgctggactt cggcgagggtg gaagtggagc ccagtgaggt ggaagacttc 660
 gaggctcgtg ggaacccgct tcttcaagtc tgctgatgag agacagcgca tgctgggtgca 720
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<210> 5283

<211> 761

<212> DNA

<213> Homo sapiens

<400> 5283

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 gctgccctgg accctgctga ctggccagat ggttcttacc caacgtttga tggtcatca 180
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 aagccacggg agaacctgca gttttggang atttgcttgc gaatcgctct ntgcacgttg 720
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<210> 5284

<211> 691

<212> DNA

<213> Homo sapiens

<400> 5284

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gaaaggtaat tgcccatggt ctgagagcca gcgccctact actgattcca cagctggggg  180
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tactttgaga ccatagctgc cctcatccct ggccctgggc ccccccttc cagctccatc  480
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aatccagcct gtgccgtgct tccaaaccaa aatgagtcca caggggcgcc tcttccaaaa  600
gtggacagag gcgtggcctg ggggagcacc acctnttccc gcatctangt catncaccgg  660
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<210> 5285

<211> 721

<212> DNA

<213> Homo sapiens

<400> 5285

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ggcacgcacc aatcagaaca tcatggagaa cagattgctg atgcaggacc ccgaaagaag  180
atggtttgga gatgacggca ggatcctagc tctgccaac ccatcaagc catttccttc  240
aaggccgcca gtactaacac aggagcagag cattaaggca gagcttgaaa cactgtataa  300

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aaaggctgta aaatacgttc acagtagtca gcatgtgac agatctggag accctcctgg 360
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 ccgagagcat gttttggcag ccaagctggc ccagttatat gaccagtacc ttgcaagaca 480
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 t 721

<210> 5286

<211> 780

<212> DNA

<213> Homo sapiens

<400> 5286

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 atgcggccgt cctgcagcag aagcctcgag agcctccggg tgggtgcaa gccgcctccc 180
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 gtgccttcag accaaagaat tacgtgaca gatttatttg aaaatgccta tgggtcttca 660
 atgaaagga agagaacttg aagagctgaa ggataatatt gaattcagan gncataagcc 720
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<210> 5287

<211> 698

<212> DNA

<213> Homo sapiens

<400> 5287

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aataatgcaa aagagatttg ttgtaaaagc ttigaaattt aattatgac agggagttct  180
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tcaaataatt catccacac ggctagctca cttccacca ggaaatagaa aagaattttt  300
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ttctaatagt acatagtttg aaaagcactt ggccgtcttc tgcatcttgg gaacatgttg  480
cttcctgacc cacagaggat ggcttctcgc tgtgtcctca tgtggtggaa ggggtgaggg  540
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<210> 5288

<211> 629

<212> DNA

<213> Homo sapiens

<400> 5288

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tggccgtgct taagggtt cggaaacgggg ctgtctatgg agccaaaatc cgggcccctc  180
acgcgctggt catgaccttt ctcttccgga atggcagcct ccaggagaag ctgtgggcca  240
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tactgcaggc cacatatatc cactcctgga acctggcacg gtttgtgttc acctacaagg 300
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<210> 5289

<211> 817

<212> DNA

<213> Homo sapiens

<400> 5289

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tggatctgaa agatttggga aaaagaagaa acatgtggtg gnaatgctag acccaattcg 780
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<210> 5290

<211> 815

<212> DNA

<213> Homo sapiens

<400> 5290

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<210> 5291

<211> 676

<212> DNA

<213> Homo sapiens

<400> 5291

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gagaaacaac tatgttccaa tatgaaacta cattacttgc agtgatcaat ctgagagatt 360
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<210> 5292

<211> 671

<212> DNA

<213> Homo sapiens

<400> 5292

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<210> 5293

<211> 710

<212> DNA

<213> Homo sapiens

<400> 5293

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<210> 5294

<211> 691

<212> DNA

<213> Homo sapiens

<400> 5294

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caaagtaggc catagatcta aatgttagag ctgaaactac aaaacacttg aagtaaatac  180

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<210> 5295

<211> 835

<212> DNA

<213> Homo sapiens

<400> 5295

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<210> 5296

<211> 729

<212> DNA

<213> Homo sapiens

<400> 5296

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 ggaagctgag aagctggaag ctgacatcag agaagagaaa acttcctgga agtatcaggt 660
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<210> 5297

<211> 828

<212> DNA

<213> Homo sapiens

<400> 5297

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aatcactgga ggccatgtct acactgccaa gagaaaaaag ttcaaaaact catttcaaac 180
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cagtagtgcc gcctcgctgg cattgggttg ctgcagttgn gctgagacta accgagtgc 780
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<210> 5298

<211> 832

<212> DNA

<213> Homo sapiens

<400> 5298

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gactatcttt ggcagaagaa ccttcgccag tcatctataa gacatcattc acagtgcac 780
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<210> 5299

<211> 721

<212> DNA

<213> Homo sapiens

<400> 5299

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<210> 5300

<211> 787

<212> DNA

<213> Homo sapiens

<400> 5300

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<210> 5301

<211> 824

<212> DNA

<213> Homo sapiens

<400> 5301

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<210> 5302

<211> 806

<212> DNA

<213> Homo sapiens

<400> 5302

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806

<210> 5303

<211> 730

<212> DNA

<213> Homo sapiens

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<210> 5304

<211> 654

<212> DNA

<213> Homo sapiens

<400> 5304

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<210> 5305

<211> 790

<212> DNA

<213> Homo sapiens

<400> 5305

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<210> 5306

<211> 820

<212> DNA

<213> Homo sapiens

<400> 5306

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<210> 5307

<211> 674

<212> DNA

<213> Homo sapiens

<400> 5307

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<210> 5308

<211> 774

<212> DNA

<213> Homo sapiens

<400> 5308

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<210> 5309

<211> 832

<212> DNA

<213> Homo sapiens

<400> 5309

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<211> 834

<212> DNA

<213> Homo sapiens

<400> 5310

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<210> 5311

<211> 767

<212> DNA

<213> Homo sapiens

<400> 5311

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<210> 5312

<211> 469

<212> DNA

<213> Homo sapiens

<400> 5312

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<210> 5313

<211> 724

<212> DNA

<213> Homo sapiens

<400> 5313

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<210> 5314

<211> 729

<212> DNA

<213> Homo sapiens

<400> 5314

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cccgttcac tgggtgcccct cccaccatgg ctgccactgt cctccacag ccaaccagc  180
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agtgccatct ggatcggtgg ttcctcttca tccaggtttt ctgtgttctg ctctgatcct  420
cctgcctcag cctcccaaag ctctgggaat acaggcgtga gccactgcgc ccggccaagt  480

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<210> 5315

<211> 739

<212> DNA

<213> Homo sapiens

<400> 5315

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<210> 5316

<211> 718

<212> DNA

<213> Homo sapiens

<400> 5316

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<210> 5317

<211> 850

<212> DNA

<213> Homo sapiens

<400> 5317

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<210> 5318

<211> 665

<212> DNA

<213> Homo sapiens

<400> 5318

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<210> 5319

<211> 626

<212> DNA

<213> Homo sapiens

<400> 5319

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canggccacc tgcaggacgc cgacacctac ccctcagcag acgccggana gaaatgagta 180
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<210> 5320

<211> 823

<212> DNA

<213> Homo sapiens

<400> 5320

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<210> 5321

<211> 857

<212> DNA

<213> Homo sapiens

<400> 5321

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857

<210> 5322

<211> 781

<212> DNA

<213> Homo sapiens

<400> 5322

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<210> 5323

<211> 854

<212> DNA

<213> Homo sapiens

<400> 5323

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<210> 5324

<211> 771

<212> DNA

<213> Homo sapiens

<400> 5324

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<210> 5325

<211> 773

<212> DNA

<213> Homo sapiens

<400> 5325

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 cccaccccaa gaattttgaa agcttttagc aaatactaata gtatttgctt ccccttcata 180
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<210> 5326

<211> 695

<212> DNA

<213> Homo sapiens

<400> 5326

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<210> 5327

<211> 745

<212> DNA

<213> Homo sapiens

<400> 5327

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 ttttacaggg ctggggaccc cattcttact tacttcccca agtgggtctgt aataagcttg 660
 ctgagacaac ctgcangagt tggagctggg ggactctgtg ctgaaagcaa tcctgcagtt 720
 tnctaaagag taaaagtnca acttg 745

<210> 5328

<211> 712

<212> DNA

<213> Homo sapiens

<400> 5328

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 angtgtgcgc tggcaaggtc actgtgaagt tcagccagag gctttgcaag cctgggcctg 600
 agaagccaga cctcttagat ccagaagggc caatggagct gggctggcct gctgccactc 660
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<210> 5329

<211> 570

<212> DNA

<213> Homo sapiens

<400> 5329

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ggactcctgg gtctgaggga ggaggggtgg ggcccgtact cctggatgta agggaggagg 180
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<210> 5330

<211> 746

<212> DNA

<213> Homo sapiens

<400> 5330

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aaggagaaga agcagaagcg gttggaggag cgagcagcca tggatgccgt ttgtgcaaaa 180
gtggacgctg ccaacaggct tggagaccct ctggaggctt tcccagtgtt caagaaatat 240
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gagtggggct ggaaggaccg agagaaacgg gaggaatga cagatgaccg agccttggtac 420
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<210> 5331

<211> 710

<212> DNA

<213> Homo sapiens

<400> 5331

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<210> 5332

<211> 644

<212> DNA

<213> Homo sapiens

<400> 5332

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cgggacgttg ccctcgttct agcaccagag caggcagggg caccgctgct gganagcgcc 600
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<210> 5333

<211> 431

<212> DNA

<213> Homo sapiens

<400> 5333

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gtctcactgn g 431

<210> 5334

<211> 840

<212> DNA

<213> Homo sapiens

<400> 5334

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cagtatgtca acccagcctt cgaaaggatg atgggctacc acaaaggatga gctcctggga 180
aaagaactcg ctgatctgcc caaaagcgat aagaaccggg cagaccttct cgacaccatc 240
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ggggacagca tccaacagca cgtgaagatc accccagtga ttggccaagg agggaaaatt 360
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<210> 5335

<211> 794

<212> DNA

<213> Homo sapiens

<400> 5335

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aagtggaagc tcagcacata ctggccagtg caccaacaga caggaacctt tgtcactttc 180
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<210> 5336

<211> 708

<212> DNA

<213> Homo sapiens

<400> 5336

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aaggcacccc ggtggagatg gtggtgattg gggacgacaa gcgccttcac tgtcctgaag 660
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<210> 5337

<211> 728

<212> DNA

<213> Homo sapiens

<400> 5337

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gagctgctca atgaaaagtc ccccttcttc cangaaactc atgacagtcc cttctgnctg 720
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<210> 5338

<211> 872

<212> DNA

<213> Homo sapiens

<400> 5338

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ggggcttgag tagatctctt cgaattaaat aaatcagact cttagaantt ggagacccca 840
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<210> 5339

<211> 837

<212> DNA

<213> Homo sapiens

<400> 5339

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gaacttggca gtttttcagt cgtatacagc caaagaaaag tattcagtgc cgcttttggg 180
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 taanggattt gtgtgaaaac tngtitttga gcatctcttt tctggtgctg gtgacancag 780
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<210> 5340

<211> 761

<212> DNA

<213> Homo sapiens

<400> 5340

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<210> 5341

<211> 758

<212> DNA

<213> Homo sapiens

<400> 5341

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cccacggtgg gcaccaatct tactgacatc gtggcacaga gaaagatcac catccgggag   180
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cgattncctc tgcttctgct tggccccaaa ctttggttaa agctactttg gccgggcnc   720
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<210> 5342

<211> 886

<212> DNA

<213> Homo sapiens

<400> 5342

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agactcttca ggtctggcca ccctactata cggggagaca ttgacacagc agttccaaag   180
agagcagcca gggaggtaaa aaggccaatc cccacttttt tttttttttt tttagagaag   240

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accaagacaa agaaaaagga taattgattt ggaaaagact tgaagaggga tcggtgtctt 300
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 ttttcttttt ttgatctca ctctggcatt caggncctga atgcatggca caatcacggg 840
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<210> 5343

<211> 801

<212> DNA

<213> Homo sapiens

<400> 5343

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<210> 5344

<211> 724

<212> DNA

<213> Homo sapiens

<400> 5344

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<210> 5345

<211> 835

<212> DNA

<213> Homo sapiens

<400> 5345

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<210> 5346

<211> 813

<212> DNA

<213> Homo sapiens

<400> 5346

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 ggtcaagtct ccctccaaaa aaggccaacg taggaggatt atttttctc acattctttt 540
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<210> 5347

<211> 717

<212> DNA

<213> Homo sapiens

<400> 5347

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<210> 5348

<211> 767

<212> DNA

<213> Homo sapiens

<400> 5348

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acatatacca caccgacctc ttcgagcacc ccccgagaaa atgccagtgt ccccggaaact 720
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<210> 5349

<211> 803

<212> DNA

<213> Homo sapiens

<400> 5349

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<210> 5350

<211> 736

<212> DNA

<213> Homo sapiens

<400> 5350

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 tataatcccc ttggttctca gcctgccact cacaggactt ttccctgtgc tgcgttccca 300
 gtgccccctc cccgccccca cctgtgcttt ttgttggatt agtagaattg cttttgtcat 360
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<210> 5351

<211> 676

<212> DNA

<213> Homo sapiens

<400> 5351

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<210> 5352

<211> 850

<212> DNA

<213> Homo sapiens

<400> 5352

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atttgcctgt cctggctcagg cccccacccc ccttcccacc tgaccagcca tgggggctgc  180

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<210> 5353

<211> 643

<212> DNA

<213> Homo sapiens

<400> 5353

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643

<210> 5354

<211> 784

<212> DNA

<213> Homo sapiens

<400> 5354

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gcctcttctg agagcacagg ctttggagaa gaaagagaaa gcattctttg agaaaaacaa 420

gcaaaggaga agagtgttac tgtaccctta tgacagaatt gtcctggatt ttgactccat 480

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ctctgtggtc tttgtaatta gaagcttcag aactcactaa tactactgna cttttcattg 660

gcgcattacc ccataaaact ttttgagacg aggtgagatc tgagtataaa gataggtcag 720

aagtatttta aagggtttaa tgngcccaaa aggaaaaaaa gctngagacc ctttttgna 780

aacc 784

<210> 5355

<211> 607

<212> DNA

<213> Homo sapiens

<400> 5355

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<210> 5356

<211> 753

<212> DNA

<213> Homo sapiens

<400> 5356

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<210> 5357

<211> 831

<212> DNA

<213> Homo sapiens

<400> 5357

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<210> 5358

<211> 745

<212> DNA

<213> Homo sapiens

<400> 5358

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<210> 5359

<211> 767

<212> DNA

<213> Homo sapiens

<400> 5359

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<210> 5360

<211> 705

<212> DNA

<213> Homo sapiens

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<210> 5361

<211> 762

<212> DNA

<213> Homo sapiens

<400> 5361

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cttcattggt gaatttgcca ccctgagcaa gctnactggt gaccgggtgn tcgaagatgt 720
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<210> 5362

<211> 802

<212> DNA

<213> Homo sapiens

<400> 5362

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<210> 5363

<211> 712

<212> DNA

<213> Homo sapiens

<400> 5363

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<210> 5364

<211> 866

<212> DNA

<213> Homo sapiens

<400> 5364

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<210> 5365

<211> 763

<212> DNA

<213> Homo sapiens

<400> 5365

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attgtgctct tttggacata ataaataatt ctctattgag gctacattct tttttttttt  180

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<210> 5366

<211> 807

<212> DNA

<213> Homo sapiens

<400> 5366

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<210> 5367

<211> 786

<212> DNA

<213> Homo sapiens

<400> 5367

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<210> 5368

<211> 767

<212> DNA

<213> Homo sapiens

<400> 5368

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<210> 5369

<211> 860

<212> DNA

<213> Homo sapiens

<400> 5369

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<210> 5370

<211> 751

<212> DNA

<213> Homo sapiens

<400> 5370

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<210> 5371

<211> 680

<212> DNA

<213> Homo sapiens

<400> 5371

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<210> 5372

<211> 762

<212> DNA

<213> Homo sapiens

<400> 5372

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catatgtagt atgactgtca gagacgttgg aacctgaagc gacccattt tgagtgaggg  180
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<210> 5373

<211> 679

<212> DNA

<213> Homo sapiens

<400> 5373

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<210> 5374

<211> 738

<212> DNA

<213> Homo sapiens

<400> 5374

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<210> 5375

<211> 706

<212> DNA

<213> Homo sapiens

<400> 5375

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<210> 5376

<211> 506

<212> DNA

<213> Homo sapiens

<400> 5376

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<210> 5377

<211> 851

<212> DNA

<213> Homo sapiens

<400> 5377

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 cacaaccct tttccgggaa gagtgcctga caatactatt taatggattt cctggncaga 780
 caactttcac catttcctta ggagacaggt ggtcaggaag caggaaagac taanatgatg 840
 gggactnttt g 851

<210> 5378

<211> 682

<212> DNA

<213> Homo sapiens

<400> 5378

gaccgtggat cggctggagc ggggccgccg ccggctgcag caggagctgg acgacgccac 60
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 ggccgaggca gagggccggg agcgtgaggc tcgggccctg tctactgacac gggcactgga 240
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 gctggccaag cagctgagag atgcagaggt ggagcgggat gaggagcgga agcagcgcac 600
 tctgcccggtg gcttgccgca agaagctgga nggagagctg gangaactga angcttaaata 660
 ggccttttgc cggccagggc aa 682

<210> 5379

<211> 791

<212> DNA

<213> Homo sapiens

<400> 5379

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 tcccctgagg tcaggagttc aagaccagtc taaccaacat ggcaaaagcc catcgctact 180
 aaaaatacaa aaattagcca ggcatggtga tgcaggcctg taatcccagc tacttgggag 240
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 ccactgcatt ccagcctggg tgacagagtg agactcttat ctcaaaaaaa atcaataaaa 360
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 tactataaac atatgtacac cagcaaattg aataaccaa tgaaatggca aatctctaga 720
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 ncnaggtgca a 791

<210> 5380

<211> 851

<212> DNA

<213> Homo sapiens

<400> 5380

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ggaaaatgaa cgccagtgga tgtgtggaat tttttcacia agtaagtac ggggggtccct 180
ttgcacttct catgccccca tggttaattg tgtgtgtgtg ctggaagtgg aggagggcgg 240
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tcagcttggc cagagagcca aggaccacia ggggaagtga tgtacgtga gaaccgtcc 720
gggccgcccc acacgggtca aggcctttgg cttacangct gggtttattt ctgagcaacc 780
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actggctact g 851

<210> 5381

<211> 840

<212> DNA

<213> Homo sapiens

<400> 5381

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 agctctctgg gaggctgagg cgggtggatc acttgaagtc gggagtttaa gaccagcctg 180
 gccaaacttg tgaaaccttg tctctactag aaatacaaaa aattagccag gcatgatggc 240
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 cctattagat gccagtggca tccctcccct gacacacacc tagttttgac aatctctgct 720
 ncagatatcc ccaaagtgtc cctggagagc aaaactgggt ncagttgaga ccattgacct 780
 aatgtaaaaa aataaaatgt ccagaagaaa gccttgccag gaaatcattc tganctcang 840

<210> 5382

<211> 815

<212> DNA

<213> Homo sapiens

<400> 5382

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 actttctggg cttgtggagc tggatatgca aaaaatgggt cccctacctc ttggtgaggt 180
 tcaactgtgat atacaacgaa cagatggcaa gcaagaagcg ggagctcttc agtaacctgc 240
 aggagtttgc gggccccctc gggaaactct ccttgctgga agtgggctgt ggcacggggg 300
 ccaacttcaa gttctacca cctgggtgca gggtgacctg tattgacccc aaccccaact 360
 ttgagaagtt tttgatcaag agcattgcag agaaccgaca cctgcagttt gagcgctttg 420
 tggtagctgc cgggggagaac atgcaccagg tggctgatgg ctctgtggat gtggtggtct 480
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tgctgagacc gggaggggct ttctatttca tggagcatgt ggcagctgag tgttcgactt 600
ggaattactt ctggcaacaa gtcctggatc ctgcctggca ctttctggtt gatgggtgca 660
acctgaccag agagagctgg aangccctgg aacggccagc ttctctaagc tgaactgcag 720
cacattcagg cccactgtc ctgggagtgg tgcgccctca tatctatgga tatctgggaa 780
anntgtgagc tgcagttaaa ncttgaaggc ttaaa 815

<210> 5383

<211> 768

<212> DNA

<213> Homo sapiens

<400> 5383

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ctgcatcagg agtccaggct aggttgctgg gtgctctgcc tagggtctca caaggcagaa 180
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ctgcccagga aaatctctct tttcatgaac ccaaagtcac ctgattaggg actttaattg 480
cagctgtaaa atgagtcacg ggataatata ccatcatagt cacaagagcc actcatgac 540
aaggagaggg attatgcagg gtgcatatac caggggtggg aatcttggag gccactcaga 600
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gacaagcata ttttttgaga tgaagtctca ctctatcgcc caggctggaa tgcattgggtg 720
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<210> 5384

<211> 811

<212> DNA

<213> Homo sapiens

<400> 5384

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cccagggtcc ttcacggagc cacacggctc tccttggcac ttaatcttca agctctcctc  180
agcccacact tgacccttaa caggggagac aaaggcagac tccaggtaag ttgtcagggt  240
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cttttctgcc caagccttgg nttttccgta tgttagtggg gacagattgg aactaaacag  660
accttgagtc ttttcanggt cagtctcaac tctcttagat gctagaggga tataggcagg  720
gctagcacag aacagaagcc agaaatagtc aaaatgaata ttttggactg gatanactca  780
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<210> 5385

<211> 774

<212> DNA

<213> Homo sapiens

<400> 5385

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gcatgtgcag gggaactgcc ctctataaaa tcatcagatc ttgtgacata tattcactac  180
cacgagaaca gcttgggaaa gatgcacacc cgtgattcga ttacctcctt ccaggctcct  240
ctcatatcac acgggaatta tgggagctac aattcaagat gagatttggg tggggataca  300

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gccaaacat atcattcatc atctgaggga actgtggtct cagacagctg ggcactgaga 360
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ccacagaatc agtgtgcccc attccagtac ctatgatttc acctgnattc ttggcacttc 720
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<210> 5386

<211> 759

<212> DNA

<213> Homo sapiens

<400> 5386

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tctctccctc tagtcccccc tatctctcat actctgcccc tctcccagcc tagactcaag 180
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gcctgcccc tgctactgcg tctgggtccc aaaagcccca cccctgnaca acttaaagct 720
tntnggcct gtggaagtgc cttaaggatg ccaactgga 759

<210> 5387

<211> 739

<212> DNA

<213> Homo sapiens

<400> 5387

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aaacagtttg atgatggtgg ctctgatgag gaagatatat gggaggaaaa gcacatcgca   60
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gactctgaag aagaagatgg agcaaagcaa gacttgtttg aaccacagcag tgccaacacg  180
gaggataaaa tggaggtgga cctgagtga ccaccaact ggtcagctaa ctttgaatgtc  240
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acagagactg cggctcttcaa aagtgaggaa gggaaactgt ctaccttca agatgctgct  660
tgtaaagacg cagaggagtg tcccagact tgcanaagcg aagtgcgccg nngcccaagc  720
cttccagcag cagtcccga                                     739

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<210> 5388

<211> 798

<212> DNA

<213> Homo sapiens

<400> 5388

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gcgtcatccc tcttggatat agatgttttc ctggacacac cagctacaca ataagccagt   60
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ccaagccagg gttattaatc aaagctgact ccctcgtatt gatcagacct caaatggctc  180

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tggtccatgc caccctgttt atatattgct gtttaatttg cagccaccct gcgtgcactc 240
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 actntccact aggcacac 798

<210> 5389

<211> 701

<212> DNA

<213> Homo sapiens

<400> 5389

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 ttttgtagaa aaatgtaaaa cagtcattat agagatagga cataaaaaata gtagctaaca 180
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 tacagtctga agaactgtga gccaaataaa cctctttttt aaaatttaat ttaatttttt 660

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701

<210> 5390

<211> 775

<212> DNA

<213> Homo sapiens

<400> 5390

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<210> 5391

<211> 842

<212> DNA

<213> Homo sapiens

<400> 5391

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 ngggcatttt ccttgccctt gactgatgct atgccggaga ctgatacatt ttcttaatgg 780
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<210> 5392

<211> 352

<212> DNA

<213> Homo sapiens

<400> 5392

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<210> 5393

<211> 720

<212> DNA

<213> Homo sapiens

<400> 5393

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<210> 5394

<211> 744

<212> DNA

<213> Homo sapiens

<400> 5394

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<211> 781

<212> DNA

<213> Homo sapiens

<400> 5395

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<210> 5396

<211> 775

<212> DNA

<213> Homo sapiens

<400> 5396

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tcagcagttc	atgaccagcc	tggccaacat	ggtgaaacct	tggcgctact	aaaattccaa	720
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<210> 5397

<211> 670

<212> DNA

<213> Homo sapiens

<400> 5397

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 ctgcacaaca 670

<210> 5398

<211> 770

<212> DNA

<213> Homo sapiens

<400> 5398

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770

<210> 5399

<211> 792

<212> DNA

<213> Homo sapiens

<400> 5399

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<210> 5400

<211> 778

<212> DNA

<213> Homo sapiens

<400> 5400

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<210> 5401

<211> 623

<212> DNA

<213> Homo sapiens

<400> 5401

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<210> 5402

<211> 873

<212> DNA

<213> Homo sapiens

<400> 5402

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<210> 5403

<211> 727

<212> DNA

<213> Homo sapiens

<400> 5403

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<210> 5404

<211> 780

<212> DNA

<213> Homo sapiens

<400> 5404

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<210> 5405

<211> 797

<212> DNA

<213> Homo sapiens

<400> 5405

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<210> 5406

<211> 840

<212> DNA

<213> Homo sapiens

<400> 5406

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<210> 5407

<211> 782

<212> DNA

<213> Homo sapiens

<400> 5407

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<210> 5408

<211> 601

<212> DNA

<213> Homo sapiens

<400> 5408

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<210> 5409

<211> 803

<212> DNA

<213> Homo sapiens

<400> 5409

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<210> 5410

<211> 777

<212> DNA

<213> Homo sapiens

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<210> 5411

<211> 739

<212> DNA

<213> Homo sapiens

<400> 5411

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<210> 5412

<211> 642

<212> DNA

<213> Homo sapiens

<400> 5412

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<210> 5413

<211> 706

<212> DNA

<213> Homo sapiens

<400> 5413

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<210> 5414

<211> 673

<212> DNA

<213> Homo sapiens

<400> 5414

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673

<210> 5415

<211> 728

<212> DNA

<213> Homo sapiens

<400> 5415

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<210> 5416

<211> 791

<212> DNA

<213> Homo sapiens

<400> 5416

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<210> 5417

<211> 829

<212> DNA

<213> Homo sapiens

<400> 5417

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<210> 5418

<211> 787

<212> DNA

<213> Homo sapiens

<400> 5418

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<210> 5419

<211> 791

<212> DNA

<213> Homo sapiens

<400> 5419

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<210> 5420

<211> 841

<212> DNA

<213> Homo sapiens

<400> 5420

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<210> 5421

<211> 834

<212> DNA

<213> Homo sapiens

<400> 5421

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<210> 5422

<211> 803

<212> DNA

<213> Homo sapiens

<400> 5422

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<210> 5423

<211> 790

<212> DNA

<213> Homo sapiens

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<210> 5424

<211> 753

<212> DNA

<213> Homo sapiens

<400> 5424

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<210> 5425

<211> 762

<212> DNA

<213> Homo sapiens

<400> 5425

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<210> 5426

<211> 727

<212> DNA

<213> Homo sapiens

<400> 5426

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<210> 5427

<211> 693

<212> DNA

<213> Homo sapiens

<400> 5427

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<210> 5428

<211> 781

<212> DNA

<213> Homo sapiens

<400> 5428

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<210> 5429

<211> 817

<212> DNA

<213> Homo sapiens

<400> 5429

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atttgcagct tccttcaaaa gtcctattac tagttctcca cccaaatgga tggctgagat  180
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gacatgttga ttggatgggt cttttgaatg gtcttgactc ttaaaaaggg ttaccatgtg  780
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<210> 5430

<211> 649

<212> DNA

<213> Homo sapiens

<400> 5430

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 ggcctgtgcg ggaggacttt gaagccaaga acaggcagct gctggaggag atgccgcgct 600
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<210> 5431

<211> 828

<212> DNA

<213> Homo sapiens

<400> 5431

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 gtagaacagc cattgtgatt ggactggttt ctctgcaatg gcgccaaccc caggcttgcc 180
 aatactgcct atgtaaaggg caagtgtgag aagctattct catttcgctg acatacaggt 240
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<210> 5432

<211> 486

<212> DNA

<213> Homo sapiens

<400> 5432

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tcagggattt gggatgaagt gaagaggtca aattactttt tagaagaagg gaatctaaaa 180
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cgctcccggt gttcgggcgg ttctcctgcc tcagcctccc gagtagctgg gattacaggc 420
gcccgccacc acaccagct aattttttgt atatttggnn nagacggggt ttcaccnggt 480
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<210> 5433

<211> 651

<212> DNA

<213> Homo sapiens

<400> 5433

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cagtatagct ccggtggcgt ggggtgctgt gtgtgggact ctgccattgt cctttctaaa 180
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aancatcttg tcaactgggtc tgttcaagcc aaggggggaa gaaatagaag gctttccttc 420
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gctgaaaact ctaaaagata tcagcggatt tgaaacttgt attatatgtt gttatgaaca 540
acgaacaatg gggaaaaatt cagaaattga naaaaaatat tntgagctcc ttcagctaga 600
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<210> 5434

<211> 704

<212> DNA

<213> Homo sapiens

<400> 5434

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gctcgtgctg ctgctctacg cgccagtcgg gttctgcctc ctcgtcctgc gcctgtttct 180
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acaacctctt accctgcaag tticagagacc cctggtctct gtgacggtgt cagatgcctn 660
ctgggtctca naactgctgn ggtcactttt cggccctttc acgg 704

<210> 5435

<211> 857

<212> DNA

<213> Homo sapiens

<400> 5435

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gttgtgtgta ggaaatttct ttggctccac ccaagatgct gaatgggagg agtataagac  180
tggcatcaag aaagggagaa gtggatacca aaaaatgtgg ttctgctttg gtttccagtc  240
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ggcttccata tcgaaaccat atcattctac aggaaaatgc acagcatgcc acccggttta  360
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ttcccatgaa gctaattgat gcagcagaac tggtaaaaca gcctccgat gtcactgaaa  480
acccttacag aaaatctggg caggaagcat ccataggaaa gcaaattctt gccctgttg  540
aagaatcagc ctgtcagttt ttctttgatt taaatgaaaa gcagggaang aagcggttcat  600
ccacaggtag agatagcaaa tcttctctc atccaaagca gcctcgcaa cctccctcca  660
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gcctattgga cctaccagc cagtggtag actttcanca naagtggtag aagaagtgga  840
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<210> 5436

<211> 498

<212> DNA

<213> Homo sapiens

<400> 5436

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gtgagtgtgg ttttctccag agtgggagtt aaccagtatg taggaggaag ggtgtttcag  120
ggccatagat gtgtcctgct ataacttcgt agtcctggat gctgtaataa ggcctcctgc  180

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agaccttcgt tctattccac agctgcccgg ggtgtttata aaagtgaac ttcaaggttt 240
attccagagc taaagtcaga aaaacttttg gcccttctct gtatctcagc acttgcaagg 300
ctgtcctggg ccaaggtaga gagtgtgcaa ctgaaaatag ggacgctgtg gactttctgg 360
gccaagttcc ccgtctagat gtgttgggcg cctttctttt tttttttttt tttttttgag 420
acactttcgc tctgttgccc actctgggtg caatgagctg agattgcacc actgcactct 480
aaccngggng acncagca 498

<210> 5437

<211> 829

<212> DNA

<213> Homo sapiens

<400> 5437

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gtcactcaag atctaggtct cgtgaaagac gccatcgtag tagaagcagg gagcggaaga 180
agtctcgatc caggagtagg gagcggaaga aatcgagatc cagaagcaga gagaggaaga 240
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tccaatgaaa ttgtcttgaa caagagaaaa aaangaaaa tgctttggca gggccaggaa 780
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<210> 5438

<211> 735

<212> DNA

<213> Homo sapiens

<400> 5438

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ttacatctac tacaacgacg tgtatgcctt taatctggac acctcacat ggagcaagct 720
gtccccgtca nggac 735
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<210> 5439

<211> 782

<212> DNA

<213> Homo sapiens

<400> 5439

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agatgccggc cgtgtccaag ggggacggga tgcggggcct ggcggtcttc atctcggata 180
cccgcaactg taaaagtaaa gaagcagaaa taaaaggat aaacaaggaa ctggcaaata 240
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tcagatcaaa atttaaaggt gacaaggctc ttgatggcta tagtaaaaaa aagtacgtct 300
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<210> 5440

<211> 660

<212> DNA

<213> Homo sapiens

<400> 5440

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<210> 5441

<211> 796

<212> DNA

<213> Homo sapiens

<400> 5441

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<210> 5442

<211> 640

<212> DNA

<213> Homo sapiens

<400> 5442

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tgcgttgctg gggaggcagc ccaggacgcc tgagcggcag aaacatgtg cacaggaggt 180
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<210> 5443

<211> 903

<212> DNA

<213> Homo sapiens

<400> 5443

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 tcn 903

<210> 5444

<211> 845

<212> DNA

<213> Homo sapiens

<400> 5444

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<210> 5445

<211> 856

<212> DNA

<213> Homo sapiens

<400> 5445

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<210> 5446

<211> 713

<212> DNA

<213> Homo sapiens

<400> 5446

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ataaccctc attgttcgca gctgatgtca ctgcagttg tgagcggccg cctctcccgg   60
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ccccagcgag agccggccag gttgcagcgc ggacacactc gcaggtcgt gtggccccag  180
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tcaccctcac gctgcggatg ctgatgcacg ggaaggaagt gggcagcatc atcgggaaga 300
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<210> 5447

<211> 794

<212> DNA

<213> Homo sapiens

<400> 5447

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 cagtgtccca tcgtcttatg cggatggcgg ggaaaggcct ncattcgaac ttttgtgccc 720
 aagaatgaac ggcttcatta tctcaggatg atggggctgg angattggg agaaaagaag 780
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<210> 5448

<211> 815

<212> DNA

<213> Homo sapiens

<400> 5448

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ccacttgctc actggggccc tggggacacc gccacactcg agcccatcct acggcctcaa  180
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nggattcgga agtatgacta caaccccagc tttgccatcc ggggccttca ctatgacatt  780
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<210> 5449

<211> 847

<212> DNA

<213> Homo sapiens

<400> 5449

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 ccacaccag ggatgaattg agttatctct ttctttcctg ctgggngcct tgtagtgaaa 780
 aagctgggggt ccctcctaata agnggggtcc anaactgggt catggtatct attctaaact 840
 aataatc 847

<210> 5450

<211> 721

<212> DNA

<213> Homo sapiens

<400> 5450

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 tctccatcga cactttcaac aagtcacccc ccaagcgggg tctggttggt gggatcacgt 360
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 agtttgagga acagcccgtg gaaaacctct tcccagagct gacgaacctg accagtancg 660
 tcctctggct tgacgtncac aactttcccg gcacgtcccg gcgcctntca ctcttggctt 720
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<210> 5451

<211> 807

<212> DNA

<213> Homo sapiens

<400> 5451

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 tgggggcctg actctcttac tgctgtgac gctgctggcc ttgtccgggt actcagggt 180
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<210> 5452

<211> 737

<212> DNA

<213> Homo sapiens

<400> 5452

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ctcaggcacc taacaatcac ttacttgctt tagatcactc aaatagtgat ctcagcagca  180
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<210> 5453

<211> 720

<212> DNA

<213> Homo sapiens

<400> 5453

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tggtggcaga aatggctttg gggtaggtgt gaagtcgctt cagtccctct gagttgcctc  180
ttctggatgg aacgtgtgta tcaacaacaa tgaaatgcac ctccgtgtgc atggaggcgg  240
ctgatgagaa tacagatagg ccagtcctcg ctcttccttc cagaaccggc cgctcccggt  300

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ctgacgttgg agcacgtgaa ctaagagtga caatTTTTTc tacttgcttc tgtgaataaa 360
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cattcatctg gaattactcg atgtgcagag gctgccccctt ggccgcactt gggaacatcg 480
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<210> 5454

<211> 805

<212> DNA

<213> Homo sapiens

<400> 5454

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tcaatgaggt gaagatttac agcctcagct gcggcaagtc ccttcctgag tggctttctg 180
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ccttgaagtt tgaaagggtg ttagattcag aagttgtcac ctttgaaatt ttgtctgatg 420
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acaatctctg ctttgaaatt taatggtgcc ttgaccatgg cagttggaac aaccacaggg 720
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<210> 5455

<211> 765

<212> DNA

<213> Homo sapiens

<400> 5455

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gccgcgagct caacgtgca aggaggagaa ctacgacctg ccatgcgcct ggcgaccan  720
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<210> 5456

<211> 824

<212> DNA

<213> Homo sapiens

<400> 5456

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acagagagac aagaccccag ccagcccctg tccaggcagc atggcacata ccgccagatc 240
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<210> 5457

<211> 745

<212> DNA

<213> Homo sapiens

<400> 5457

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ggatgaacgtt cactgctgan gacac 745

<210> 5458

<211> 802

<212> DNA

<213> Homo sapiens

<400> 5458

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<210> 5459

<211> 867

<212> DNA

<213> Homo sapiens

<400> 5459

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<210> 5460

<211> 762

<212> DNA

<213> Homo sapiens

<400> 5460

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<210> 5461

<211> 505

<212> DNA

<213> Homo sapiens

<400> 5461

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<210> 5462

<211> 776

<212> DNA

<213> Homo sapiens

<400> 5462

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aaggaggaag agcagctctc ttatgatgac ccaaatagga aaatgtacca tctctgcatt	720
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<210> 5463

<211> 812

<212> DNA

<213> Homo sapiens

<400> 5463

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<210> 5464

<211> 820

<212> DNA

<213> Homo sapiens

<400> 5464

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<210> 5465

<211> 768

<212> DNA

<213> Homo sapiens

<400> 5465

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<210> 5466

<211> 771

<212> DNA

<213> Homo sapiens

<400> 5466

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<210> 5467

<211> 787

<212> DNA

<213> Homo sapiens

<400> 5467

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aaaaaan

787

<210> 5468

<211> 796

<212> DNA

<213> Homo sapiens

<400> 5468

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<210> 5469

<211> 828

<212> DNA

<213> Homo sapiens

<400> 5469

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<210> 5470

<211> 852

<212> DNA

<213> Homo sapiens

<400> 5470

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<210> 5471

<211> 798

<212> DNA

<213> Homo sapiens

<400> 5471

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<210> 5472

<211> 669

<212> DNA

<213> Homo sapiens

<400> 5472

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<210> 5473

<211> 749

<212> DNA

<213> Homo sapiens

<400> 5473

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<210> 5474

<211> 554

<212> DNA

<213> Homo sapiens

<400> 5474

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<210> 5475

<211> 855

<212> DNA

<213> Homo sapiens

<400> 5475

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<210> 5476

<211> 766

<212> DNA

<213> Homo sapiens

<400> 5476

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<210> 5477

<211> 523

<212> DNA

<213> Homo sapiens

<400> 5477

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 ggagtccttg ggccgaccga gacccactc agnaccctca ctgggcacct caagcctgag 480
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<210> 5478

<211> 776

<212> DNA

<213> Homo sapiens

<400> 5478

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<210> 5479

<211> 800

<212> DNA

<213> Homo sapiens

<400> 5479

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 ccgggacctt atctccagcc ttcaggaact gtttgctccg tgggacagaa cccacaggac 720
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 aaccaacatt ccggttactt 800

<210> 5480

<211> 780

<212> DNA

<213> Homo sapiens

<400> 5480

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 cccccgggc attcgggtgg actacgaaca caaactgaag ccctaggact tgtcggccgt 180
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<210> 5481

<211> 827

<212> DNA

<213> Homo sapiens

<400> 5481

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 gcacctttat atgaagtggg taagactcct taaccccagc catttaaaga cttnctttgg 780
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<210> 5482

<211> 788

<212> DNA

<213> Homo sapiens

<400> 5482

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 aagagaacct tccccctttg gtgtggatgc atcgggtgcac tcacccttcc gtgctgattc 720
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<210> 5483

<211> 830

<212> DNA

<213> Homo sapiens

<400> 5483

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 caacagaatc ttggtcaact ttgaaggtag cagctgatct tcagctgtct acaccacaga 720
 aagcaagtca acaccaagtt ttatTTTTGG tAtcagatgt acacatgcta agaattccacc 780
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<210> 5484

<211> 813

<212> DNA

<213> Homo sapiens

<400> 5484

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 ggcaaaaatc ctatggttat ccctgggaac gcagatcacc tacatcggac ttcaattcat 720
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<210> 5485

<211> 684

<212> DNA

<213> Homo sapiens

<400> 5485

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cagattacat gtacaaagac tatttgggtt ccacagcgat cttattaaag nttcttatca 600
gaccactgca ggaagcgcca agccactgga agattttgag cctgttcaga atggggaact 660
gntttttcaa aaattncaaa ctga 684

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<210> 5486

<211> 675

<212> DNA

<213> Homo sapiens

<400> 5486

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gcagctaccg ggcggggcgc aagaaacgcg tgccctacac taaggtgcag ctgaaggagc 420
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<210> 5487

<211> 747

<212> DNA

<213> Homo sapiens

<400> 5487

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gaagggtgtg ngcttantcc caacctggaa gcacggtgcn cgacattggc cttacaacca 720
ggaacaccca gaagaaccgg ggcctgt 747

<210> 5488

<211> 789

<212> DNA

<213> Homo sapiens

<400> 5488

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ccgtcagagc ctaggggagc ctgccctccc gcgcctcgtc ggggcccggc caggcacctt  180
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aatgaatttt tagcgggaga aggcatgac agtgggtgag ttgancaaaa gctctttgga  720
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<210> 5489

<211> 689

<212> DNA

<213> Homo sapiens

<400> 5489

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gttagcggca gcggcggcgg gttcgggccg cttttcctgc cggatgtgtg ggcggcggcg  180
gcggcagcgg gctcccggcc tcagccgctg cccacggggc cgcgctgctt agccactggg  240

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accccacgct cagctccgac tgggacggcg agcgcaccgc gccgcagtgt ctactccgga 300
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<210> 5490

<211> 804

<212> DNA

<213> Homo sapiens

<400> 5490

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<210> 5491

<211> 844

<212> DNA

<213> Homo sapiens

<400> 5491

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<210> 5492

<211> 828

<212> DNA

<213> Homo sapiens

<400> 5492

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 aacttcacca ctagctttca gtgactcagt tttaaatgtt attaatacaa atgcaaagca 180
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<210> 5493

<211> 705

<212> DNA

<213> Homo sapiens

<400> 5493

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<210> 5494

<211> 772

<212> DNA

<213> Homo sapiens

<400> 5494

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<210> 5495

<211> 804

<212> DNA

<213> Homo sapiens

<400> 5495

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<210> 5496

<211> 784

<212> DNA

<213> Homo sapiens

<400> 5496

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<210> 5497

<211> 741

<212> DNA

<213> Homo sapiens

<400> 5497

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<210> 5498

<211> 811

<212> DNA

<213> Homo sapiens

<400> 5498

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<210> 5499

<211> 728

<212> DNA

<213> Homo sapiens

<400> 5499

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<210> 5500

<211> 788

<212> DNA

<213> Homo sapiens

<400> 5500

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<210> 5501

<211> 724

<212> DNA

<213> Homo sapiens

<400> 5501

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<210> 5502

<211> 741

<212> DNA

<213> Homo sapiens

<400> 5502

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<210> 5503

<211> 702

<212> DNA

<213> Homo sapiens

<400> 5503

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<210> 5504

<211> 839

<212> DNA

<213> Homo sapiens

<400> 5504

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<210> 5505

<211> 740

<212> DNA

<213> Homo sapiens

<400> 5505

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<210> 5506

<211> 713

<212> DNA

<213> Homo sapiens

<400> 5506

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<210> 5507

<211> 837

<212> DNA

<213> Homo sapiens

<400> 5507

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<210> 5508

<211> 817

<212> DNA

<213> Homo sapiens

<400> 5508

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<210> 5509

<211> 827

<212> DNA

<213> Homo sapiens

<400> 5509

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<210> 5510

<211> 750

<212> DNA

<213> Homo sapiens

<400> 5510

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 atcatgtaaa aactagtgtc acaaatcgnt tctcaagaat gcactgtcct actgtgcctg 660

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tgatttttnc aacctagact tttgaaaaac 750

<210> 5511

<211> 821

<212> DNA

<213> Homo sapiens

<400> 5511

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cctactgcaa aggcaaagtt tcgcaccttc ggcggggaacc gcgaacgccca cctggaacat 720
cctgcatang cccttggaag gtgccggcct gtgcaatttc gggtttccag cccaggaagg 780
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<210> 5512

<211> 753

<212> DNA

<213> Homo sapiens

<400> 5512

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atgtgaagaa gtggatgatt gtaaaagacc agttggagaa ncaacaggaa aaacaagaga 720
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<210> 5513

<211> 612

<212> DNA

<213> Homo sapiens

<400> 5513

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gttccatgtc aaccatgttc ctgggcacct ctgggtactc atggctgtga tgagtggggg 540
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nagcctggga ac 612

<210> 5514

<211> 759

<212> DNA

<213> Homo sapiens

<400> 5514

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aaactctgct naacctttgg aagaaaaaag agaccagang ccattgggtcc cgaaagtgga 720
tggaagatag ggaggtagaa ggaatgttac aggctnaaa 759

<210> 5515

<211> 792

<212> DNA

<213> Homo sapiens

<400> 5515

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gctcctccgt agaccgcgg agcaccttcg tgttgagtaa cctggcggag gtggtggagc 180
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ttattaagga tccaaagaat ttaacattag aaagacatca actcactgaa gtangtcttt 720
tagataaccc ttgaacttcg tgtgggggcc ttggcttttg ggtatnaatt gctgtaaagg 780
tgggaagcca gt 792

<210> 5516

<211> 827

<212> DNA

<213> Homo sapiens

<400> 5516

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atcccaacaa tgttatcatt gagcaagaag agaggcggag gcgacccctc caggattaca 480
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 caaggaatcc ttctagaaaa agaaagaagg agaanaagaa aaagaaacat agagatagga 720
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<210> 5517

<211> 880

<212> DNA

<213> Homo sapiens

<400> 5517

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 cttcttttac tgnattttta ctctgttgca ttctgggcgc atgttgatcg ctggtcagtc 720
 caggcaactg acatgctttt attagncata cagtattaat gcagggtgtca ngaaatgtca 780
 aatataattc catttttaat ttatttttt taagcttttg ggaaaactcc aggtcctcat 840
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<210> 5518

<211> 581

<212> DNA

<213> Homo sapiens

<400> 5518

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gcctcggggc ccaacgctcc ccccgccctg ttcgagctgt gcgggcgggc ggtgagcgcc  120
catatggggg ttctggagag cggggtgtgg gccctcccag gcccaatact tcaaagcatc  180
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ctctcaactc aggccatctg gcgccgactc tgggatgaac tgatgaagac aaggccttcc  300
agtttggaag gtgtgacatg ttggcgagcc aagtttatgg aggccttttt tttcccatgt  360
tctacgtggg accattgatg tgtcttctga caggcgtctt tgtgatcagc ggttctcacc  420
tcttctgcac agctcccgcc atgtccgaca gtcaccatc tgtaacatgc tgcagggtgc  480
aaccgagctg gtggctgagc ccaaccgcag ggttctggag accctgccag ntncctgcac  540
actctcaagt tccgcacctg ctgntctctg atgtggctgc t                               581

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<210> 5519

<211> 812

<212> DNA

<213> Homo sapiens

<400> 5519

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tggtccagat ccccccaag ctggctccctc cggttcgggg agtgaagaag ggattccgcg  120
ccgccttccg cttccagaag gagttagagc ggcagcgctt tctgcggtgc ccgccgccgc  180
ccgtgcgccg ttcagagaag ccgaactggg attaccatgc agaaatacaa gcttttggac  240
atcgggttaca ggaaaacttt tccttagatc ttctcaaaac tgcatattgtt aatagctgct  300

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atattaaaag tgaggaggcc aaacgccaac aacttgggat agagaaagaa gctgttcttc 360
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 attacttag gcanncttgg gggggacccc aa 812

<210> 5520

<211> 724

<212> DNA

<213> Homo sapiens

<400> 5520

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 tacagcgaca acagcctgga ccccgggctt tttgtagaaa gcacccgcaa ggggagtgtg 180
 gtgtccagag ctaatagcat cggttccacc agtgcctctt ctgtcccaa cacagatgat 240
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 gtctctgacc aggtcaagtt caacgtgttt caaggcatca tggattccct gttccagtcc 660
 ttcaatgcct ncatctnatg gccagctttc aggagctgtc ancgtgtgtc ttcagctgga 720
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<210> 5521

<211> 670

<212> DNA

<213> Homo sapiens

<400> 5521

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cacaggttcg cgggtccgagt cactgcaccg agactccaag gcctgcagca gaaacagttt   180
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angtttccat tccttgggga cacacggctg gtcagccagt tgaatgattg tatttggggg   600
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tgattcanta                                     670
    
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<210> 5522

<211> 849

<212> DNA

<213> Homo sapiens

<400> 5522

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ggctttgtta aaaattaaag gtgttattag ctttactttt caaatggctg ttcaaagggt   180
    
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tgtggtgcga atccgttcag atttgaaagc tgaggcittg gcatcagcaa tagcatcaac 240
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 aattgctcat atttaaaaac catgggtcca ctggtaaaac cncatgtgta tgtgcacttt 780
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<210> 5523

<211> 845

<212> DNA

<213> Homo sapiens

<400> 5523

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<210> 5524

<211> 849

<212> DNA

<213> Homo sapiens

<400> 5524

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<210> 5525

<211> 756

<212> DNA

<213> Homo sapiens

<400> 5525

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<210> 5526

<211> 804

<212> DNA

<213> Homo sapiens

<400> 5526

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<210> 5527

<211> 743

<212> DNA

<213> Homo sapiens

<400> 5527

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743

<210> 5528

<211> 755

<212> DNA

<213> Homo sapiens

<400> 5528

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<210> 5529

<211> 799

<212> DNA

<213> Homo sapiens

<400> 5529

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 cggacctacc gagagtattt cggggagaag acagagttcc agcttctaaa atatttgctn 720
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<210> 5530

<211> 810

<212> DNA

<213> Homo sapiens

<400> 5530

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 atattcacca cttataatgc ctcatcttaa tagctaactc aggtttaata gtcttataaa 180
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 tcataattaa gcccgtatac cccggattaa aattaaccgg aagcatttca cataaatggt 720
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<210> 5531

<211> 696

<212> DNA

<213> Homo sapiens

<400> 5531

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 catgactttt atcgggacgc cgttgtggaa gcctcacgca ggagccctgc ccccggtggag 180
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 agccagccct gacactgggg aaacagatcc ataccttata cctagacaac accaattgca 660
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<210> 5532

<211> 820

<212> DNA

<213> Homo sapiens

<400> 5532

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<210> 5533

<211> 711

<212> DNA

<213> Homo sapiens

<400> 5533

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<210> 5534

<211> 746

<212> DNA

<213> Homo sapiens

<400> 5534

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 ccaggcacgc cacgccagct cgggggtgaa gctggaagtg aacgagagga tcctcaactc 180
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<210> 5535

<211> 776

<212> DNA

<213> Homo sapiens

<400> 5535

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<210> 5536

<211> 774

<212> DNA

<213> Homo sapiens

<400> 5536

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<210> 5537

<211> 854

<212> DNA

<213> Homo sapiens

<400> 5537

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854

<210> 5538

<211> 774

<212> DNA

<213> Homo sapiens

<400> 5538

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<210> 5539

<211> 826

<212> DNA

<213> Homo sapiens

<400> 5539

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<211> 816

<212> DNA

<213> Homo sapiens

<400> 5540

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<210> 5541

<211> 850

<212> DNA

<213> Homo sapiens

<400> 5541

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<210> 5542

<211> 727

<212> DNA

<213> Homo sapiens

<400> 5542

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<210> 5543

<211> 795

<212> DNA

<213> Homo sapiens

<400> 5543

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<211> 783

<212> DNA

<213> Homo sapiens

<400> 5544

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<211> 765

<212> DNA

<213> Homo sapiens

<400> 5545

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<210> 5546

<211> 811

<212> DNA

<213> Homo sapiens

<400> 5546

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<210> 5547

<211> 810

<212> DNA

<213> Homo sapiens

<400> 5547

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<210> 5548

<211> 500

<212> DNA

<213> Homo sapiens

<400> 5548

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<210> 5549

<211> 522

<212> DNA

<213> Homo sapiens

<400> 5549

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<210> 5550

<211> 545

<212> DNA

<213> Homo sapiens

<400> 5550

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<210> 5551

<211> 543

<212> DNA

<213> Homo sapiens

<400> 5551

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<210> 5552

<211> 502

<212> DNA

<213> Homo sapiens

<400> 5552

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aattgacttc acatgtgtga gaagctagga tagggaagaa ggagtaaata agaaatgtcc 420
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502

<210> 5553

<211> 463

<212> DNA

<213> Homo sapiens

<400> 5553

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<210> 5554

<211> 538

<212> DNA

<213> Homo sapiens

<400> 5554

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<210> 5555

<211> 512

<212> DNA

<213> Homo sapiens

<400> 5555

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aaaaaggcac ncnggaccac tttttgcct ggatcccccc ttganggggt ttccancaan 480
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<210> 5556

<211> 514

<212> DNA

<213> Homo sapiens

<400> 5556

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<210> 5557

<211> 484

<212> DNA

<213> Homo sapiens

<400> 5557

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<210> 5558

<211> 468

<212> DNA

<213> Homo sapiens

<400> 5558

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<210> 5559

<211> 466

<212> DNA

<213> Homo sapiens

<400> 5559

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<210> 5560

<211> 417

<212> DNA

<213> Homo sapiens

<400> 5560

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<210> 5561

<211> 461

<212> DNA

<213> Homo sapiens

<400> 5561

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<210> 5562

<211> 438

<212> DNA

<213> Homo sapiens

<400> 5562

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<210> 5563

<211> 548

<212> DNA

<213> Homo sapiens

<400> 5563

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<210> 5564

<211> 153

<212> DNA

<213> Homo sapiens

<400> 5564

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<210> 5565

<211> 539

<212> DNA

<213> Homo sapiens

<400> 5565

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<210> 5566

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<213> Homo sapiens

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<210> 5567

<211> 535

<212> DNA

<213> Homo sapiens

<400> 5567

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 aagaaagagt gcaaacaatg ctttttccgt gccaggcaac gcagggtgag ataagatgct 480
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<210> 5568

<211> 534

<212> DNA

<213> Homo sapiens

<400> 5568

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gctnaagcca ttgcccacct naaagnctg ggattacaag tgtgagccac cacaccaac  420
caggttatth gaacattttt aaagtncctg atttctctta ttggaaaatt gactggcaat  480
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<210> 5569

<211> 542

<212> DNA

<213> Homo sapiens

<400> 5569

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gaggactcag ctctgatttg ttaaattctg cccaaattcc tgtctaaggg gcctagagag  420
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tt 542

<210> 5570

<211> 515

<212> DNA

<213> Homo sapiens

<400> 5570

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<210> 5571

<211> 541

<212> DNA

<213> Homo sapiens

<400> 5571

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tcatgtcttc tacaagttgc ctctgctctg ctctgatca cagaaaggaa gtcccaagtg 480
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<210> 5572

<211> 550

<212> DNA

<213> Homo sapiens

<400> 5572

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gaattacttc atttttatag agtttagagc ataaactaac aagggaatct aggctcttta 420
tagtaaatat ctaaaagcat tttattttac agaattgaca gcgtatgcc a tggctattca 480
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ttcnggcccc 550

<210> 5573

<211> 549

<212> DNA

<213> Homo sapiens

<400> 5573

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<210> 5574

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5574

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 aaattcagaa aaaaacatat catagcctaa aaaggaaaaa attcctcacc agagaaagggt 180
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 gaatgcaaaa caccaagagt ggatttcaca ggctgtgaat ctgatttgat tttgatggga 480
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<210> 5575

<211> 540

<212> DNA

<213> Homo sapiens

<400> 5575

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aagatagaga tgggtgttttc ctaaggagta aacattgggt ttgngtacta tccaatcaat 480
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<210> 5576

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5576

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agtctaagac tagagtctct gctttttttt tttttttaac ctcaacttta ttcattctcc 420
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atgactgaat cctacttna gntcctttgc ctancnacct gagatgccca tgggggctga 540
aacctgccat nac 553

<210> 5577

<211> 531

<212> DNA

<213> Homo sapiens

<400> 5577

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<210> 5578

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5578

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<210> 5579

<211> 548

<212> DNA

<213> Homo sapiens

<400> 5579

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<210> 5580

<211> 555

<212> DNA

<213> Homo sapiens

<400> 5580

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 ccaaacgatg ccccn 555

<210> 5581

<211> 568

<212> DNA

<213> Homo sapiens

<400> 5581

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<210> 5582

<211> 570

<212> DNA

<213> Homo sapiens

<400> 5582

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<210> 5583

<211> 569

<212> DNA

<213> Homo sapiens

<400> 5583

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<210> 5584

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5584

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<211> 562

<212> DNA

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<400> 5585

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<210> 5586

<211> 562

<212> DNA

<213> Homo sapiens

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<210> 5587

<211> 359

<212> DNA

<213> Homo sapiens

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<210> 5588

<211> 414

<212> DNA

<213> Homo sapiens

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<210> 5589

<211> 538

<212> DNA

<213> Homo sapiens

<400> 5589

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ccaaaaagat tcaatcttan gcctcttgct gtaggcaagt tccatgggac tgcacaaaag  480
aaggcagga acagtcccca tgggaaaatg ganttcntta aaaanngnt ttnaggcc   538

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<210> 5590

<211> 580

<212> DNA

<213> Homo sapiens

<400> 5590

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gggtattata ttattttatt tcagttaatg agcaaattta tcagagctgc ttgacacatg   60
atcaatttaa tataattcta tgttcaaaaa ttgtatttct gtattttgcc acaaacaatt  120
ataaaatgaa aataaagata tgatttgcaa tgatacaaaa aagtaaacad ttaggagtaa  180
ctagtgaac aagtttataa tttttaaca gaaaactaca aaacaatttt gacaaaattt  240
aaagaaaaac ctaaataaat ggagagatat attatgtttt gtagtttcaa tatgctttca  300
gttctcacca atttgagcta tatattcaat gcaatcccaa tcaaaagtct agcataattt  360
tatagaaact gacaatctga ttttaaatat gagaataaat gcaaagggcc aaaatagcca  420
gggcaaagtt nanggaagac aaagttgna aactcacctg tactttacct caaggattat  480
accaaagnta taaaagttgc aagcanaggt cccactggca atggancccc ggaaagggat  540
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<210> 5591

<211> 565

<212> DNA

<213> Homo sapiens

<400> 5591

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aatggttaaa atccagattt tttttattaa tgataaactt caccgcgtcac tgtacattat   60
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taatatttat ttcaccctca agcttggttt gaaatttctg tccttacgta tgcttcataa  180
tgtacctaat cattgttcgt gggttcatgc atatgcttat aaatgtgcat atattggggt  240
gcatacaaaa aaacatttta tagacaggaa tgtgctgaaa aaatgtaatg aattagacag  300
tagaaagaac caactatgtg ctccaagcca cacaaatgcc taagaatttg gcgtttgttt  360
gcggccatag tttgagtgtt tctcaaatgt acngngcatn cagatcacct ggggatcttg  420
ttaaaatgca aattctgaat caataancag gaaggtgggc cctganatcg gcccaacttc  480
cagaagataa aaagctgctg gttccangcc acacttccga gggccaagac cttaacntn  540
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<210> 5592

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5592

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gctattcaat tgTTTgaatt ccttatatat tctgattatt cactcctggt cagatggata   60
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tgcagagcaa ttttagattg atatatgccc atttgtccat ttttgcttTc attaccagtg  180
cttctgaagt tttgttcata aaatctttgc ccaaaccaat gtcctgactc atttccccta  240
tattttcttc tggtagtatt atagtttTga tcttacattt aagtctTtaa tccattttga  300

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gttgattttt atatggtgaa agatagaggc ctagttttat tttctgcata tgaatatcca 360
gttttcccag caccatttat tgaagagggt gtactttccc caagtgtgtt cttggcactt 420
ttgtcaaaag tcagttaggg ctaatgtgga tttggttatg ggtctgcatt ttggtcaact 480
ggcctgggng gctggtttca taccagtncc atgcnggttt gggtacnata gctttggagn 540
atggtttgaa nccnggtagg g 561

<210> 5593

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5593

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cagcccccca agatgcagaa ttccccatcc ctagcttaac agtcacggtt cactttgttt 120
tacgtgcgtt tcgcagatga gtggtgctct catcagcaga cacaagactt ctttggcctc 180
tgcttttttt tcctttcttc taataaggag actacactct agataaacia aacagacagg 240
cgaatgtaat ccagggtttt ggtgggtttt ctgagtctag aaggactaaa aattagcctt 300
gataggcaga aagagcatcc caacctgtct gtcaaaaact ctggccattt ctaggacacc 360
tttgccgaac tgaaacagga aacaacaaaa attttacatg cttataaatg ntttctcccc 420
ctncgaggna aatctttcat aaagatggac tcattacctc antttttaca cttgcatntg 480
ncccttttca aaaagtaccg gactactctt catgatntta acccagcccc ctaaggggcg 540
ttttccattn tggcctt 557

<210> 5594

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5594

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 tttccacagc attttcctat atagccagca agttattttc ttcagttatt cacaccttga 180
 tcaaacctga attataaact tagcacttac aaatatgaaa attcattcac aaggaaaaac 240
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 tttagctgaa aacttcaggg atgaagatca tctgtttag cagcattcaa atatataaac 360
 agtaaaaata agacttaaaa ctgctgccta cagtgtcatg ttttgattt agttcatcca 420
 attgattttt agtacaaaac tagaaatacc ctcttcttca tacatctata gttatcaata 480
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<210> 5595

<211> 493

<212> DNA

<213> Homo sapiens

<400> 5595

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 attaatagat tgtagtttag cctttgtcaa aagacacgca agtatttagt atttacatta 180
 aaaggattgc ctgagaagaa acattgaatt cataagccct cttaaaaagt caaaaatatg 240
 cataaagaag actagtattg atattttctg atattttaga tatgattaat attttgacc 300
 tccattggtt tccacactat catgcaaatt tccaacttgc tttaacacaa cagttctatc 360
 agctgtatta gaggggaatac acattttaat tgctcttttt gaaaatatca ccaggcagtt 420
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 annnnnnaan ccc 493

<210> 5596

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5596

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ccatgctggg gtgctgcacc cattaactcg tcatttagca ttaggtatat ctccctaatgc   180
tatccctccc ccctctcccc cccccacaac agtccccaga gtgtgatgtt ccccttcctg   240
tgtccatgtg ttctcattgn tcaattccca cttacgagtg agaacatgcg gtgttttggtt   300
ttttgccttg cgatagttaa ctgagaatga tgattccaat ttcattccatg tcctacaaag   360
gacatgaact catccttggt aatggctgca tagnattcca tgggggatat gtgcccaatt   420
tcttaatcca gtctatcatt ggtggacatg tgggttggtt ccaagtcttt tgctattggg   480
aatagtgcc caataaacat acatgggcat ggggcnttta tagccanntg gatttaaang   540
ccctttgggg antttccna naaa                                         564

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<210> 5597

<211> 556

<212> DNA

<213> Homo sapiens

<400> 5597

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acatagacaa tccagtgtat ttatacttaa tccataaagg catgatgttc aaaacacatt   60
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ataacaaatt attaaatcaa ccatttttcc ggtttataaa aggtcactga ggtcacacac   180
agtgtgtata aatgcagata aggctggtta tacatattta cagtagatac aaattaatct   240
ttcatatttg aagataatgc tttttatata ttttttctat atcagactcc ccactgttag   300
caggatttcc catgctcgag ttgtttattg ctttttggt cactgattta atattcactt   360
ctgggttggt tacacatatg aattactaat gttcttatct ctttggctaa tgcaaatgtg   420
atagagtga tgaagaaaa agatgaacta attaaatatt cagtcttggc tgggtggata   480

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atttttggtc atgtcccca atgaatcaat gncactcat ttgatatnct ccttgaaaag 540
cttgagcttg cattan 556

<210> 5598

<211> 570

<212> DNA

<213> Homo sapiens

<400> 5598

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tcaaccataa ttcccagtga ttgactgac atgataacgg gggagcccat tttcctccca 180
cccctcctca ctccctcccc ccttggtgct aagctcagcc aaggatgctc tagggagctg 240
ttcatttaaa agaggaagtt cacagcaggg tcaccaggct tttaaacaga gagagaggtt 300
gccagggta agaagagagc tcaaagtcac aaaccctttc ctttgtcctg tgaccccagc 360
atgtggggac atcagtccca agtcgtcact ctttctgagg ccactgacat cccacaagc 420
atacctggct ggcactgnga ctagcaaaag gcttggactg ggaatcagaa aggcaacacc 480
taccctgact agctgtttca tgggtggaaa agtgacctgc ccactntggc ctnaatttcc 540
caatcncaaa aatnggcttg gacanattng 570

<210> 5599

<211> 549

<212> DNA

<213> Homo sapiens

<400> 5599

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agttcttttt tctttctttt ttaattataa aactaacagc tgttanaatc ttttttctt 120
tttttccttt tttcttttcc cagctacaaa atactctggg gagatgcatt ataatttaaa 180

atatataata ttgcacaaac aacccaaaagg ttaattaaac taaagaaata attacaaaga 240
 gaaaaacccc atcccgtaa aaaaaagatt cagcattctc tccatccac cccctcactg 300
 aaggtttgaa gtggaagcct gatgagagtt tcaagttcac cccagagata gcccttccag 360
 aagcagaagg gctgaggcgg anaagctagg cttaccagag ttgtaagtac tcggctttga 420
 tcaccgctct gtaccgctgg tagctgtttt gggtcctaaa ctacagggga gttgagngg 480
 gtagctgggt tggacaaagg tttctngcag gnacacacca aagggttaa aaacccctt 540
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<210> 5600

<211> 225

<212> DNA

<213> Homo sapiens

<400> 5600

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 ttggaactgt acaatttctt aagcatatct gaatgcaaaa ggaagaataa cgttattaga 180
 agaataattc tcagaggtgg tgctgggtgg gctgtgggnn nnnnn 225

<210> 5601

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5601

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 ccaaacacag catgtgaaac agttgggcac ggtggtaaag ggcacagact ctggagccac 180
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cagaagagcg gtatctgggg gatcaggata tctaaattct agacttacag cctggccctg 300
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gacttgtaaa cttgagaggg ttgaggtcca aggtccctta aatgtaaact ttaaaatgct 420
tttttgggaa tctttcaaat cttcaagctc ttcaaagtgc aaccgggact ttctccttac 480
tatacagtct gaacaacttt gagaatcact ggattatctt aagttatata gnaatcctga 540
cctaaattta nttttcn 557

<210> 5602

<211> 531

<212> DNA

<213> Homo sapiens

<400> 5602

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tcaaatacaag gtcaggacat taagtcctac ttccctttct tccatgagaa gagcttaatt 120
ctttagtctt ttcaattagc tatagataac agttctgaaa tgtgtccatg tgtgcacact 180
tcccactgnc ttaccacttg tctgcttggt gtgtcttgca gattatcagg ctacagtgat 240
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agactcagtg acatggccag gttcaaaaac tgtgtttttt tttttttttt aaganttttc 360
ccaagctatt aaacatgtac ctttcagtat gttctacaac aatatagggc tcaaatacaag 420
ggcagggcat taaggcctac ttccctttct tncatgagaa gagcctaaat ctttagncctt 480
tcaaatagct tngatacaag tctgnaatgn ggccctgggg ggggaaagnn g 531

<210> 5603

<211> 535

<212> DNA

<213> Homo sapiens

<400> 5603

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 agcagctggg acaacaggcg gctaccacca cgcctggcta attttttttt tttttttttt 180
 ttttttttga gacggagttt ggctcctgtc acccaggctg gagtgcaatg gcatgatctc 240
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 gggtttcacc aggttggttg ggctggcttc aaattactgg ccttaggtga tcagcctgcc 420
 ttggtctccc aaagtactgg gattacaggc gtgagccccc atgcancctg gcctnagggn 480
 ttcttttaac ccttaaaaac ttcanttnaa gnattaaaag nttccccaat taaaa 535

<210> 5604

<211> 516

<212> DNA

<213> Homo sapiens

<400> 5604

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 tctttttatc acagagccag tcccaggcga gctgatgcat ctctgtcctt ctgccccctca 120
 ggagctctca tcctccaacc ccagctgccc ccgatcacat acagcttggt gaggagggtt 180
 gccatgccgt gccaggcgcg ccgcacaggc ccgtcagcca gtgtgtgcca agtgttgctg 240
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 tacatcttcc cctccagcgt cgcgcctgcg tgggcataca cctccctctt gagtggggcc 360
 acgtatgccc aggagttggt ggcagggtcg tagcgctcca cagcattcag gtcattgtgg 420
 tagtcacggn ccgccacaac gtanatgtac ctgcctacaa cacacacgga caaggtcngg 480
 cgtgctcctg ctgnanggac tggatcttgg ancna 516

<210> 5605

<211> 552

<212> DNA

<213> Homo sapiens

<400> 5605

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acaagggagg gacagcacag ggcacaagat ctttgagggtg ttagaagaca ggctgacaga 180
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tcgctatctg ataacaaagg cttctgaact cttattcttt tcctcactaa caaacctcaa 480
taatctacac ttagcattna gggcttccat tcanggggtat tggaaaaact agcttncetta 540
nccaacgttt tt 552

<210> 5606

<211> 546

<212> DNA

<213> Homo sapiens

<400> 5606

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tgtaagatag ngtttttagta tttcagccac ctttaggcac aactcagcca ggcctaggaa 180
gcaacccaac gtcattgcca tgaaccattt acacaagtca caccaaaatc aactgacaca 240
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aagagcgtga agttcacagc tcctccacac acgcccact gagcatgctc atcctgtgag 360
ggggaaccag agccttcttg taaaccatgc gagcttacca atgtctggtg tacagaatat 420
tctggcccat aaactcaacc tgtttttgan gggtaggggg attttccatc ttngncntaa 480
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agttcn

546

<210> 5607

<211> 547

<212> DNA

<213> Homo sapiens

<400> 5607

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gatattcatt cccaagaata tagttttgga aaagaatggt actaaatgca ctatTTTTGG 180
ctatatctat gtatagaatt taaagacatg ccttgattgc tcttatgggg gcagtgaata 240
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caattatttc ccttttgc atctaaaagg cccttaaaat tatctgaatc aaagcaaaaa 360
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taatcattct tcataactat taactacat tgaaccaatc catctattaa gacaccagng 480
gatggtggct ttttttttta acccaattaa aagaaaaaat tgcttgctcg ggctttaaaa 540
agtganc 547

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<210> 5608

<211> 510

<212> DNA

<213> Homo sapiens

<400> 5608

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gtataaactg atcactactt gtttgcaatg ggaagaaaga tttacagaaa aaaaaaaaaa 180
agcattgatg tatcttcagt ggagaatggt tagccagcat gtagtttgtc tagtccagca 240

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 ccaaattctt cgctgtgttc tgaactcttg ctccctgctt ccgcatcaca tctgtagcct 420
 gcatgatgta acnaggtggc aagtccgtgg cttctggggc nnaatgatgg cttgcttcaa 480
 cgtnacnctc angggccccg ntgcccaccg 510

<210> 5609

<211> 544

<212> DNA

<213> Homo sapiens

<400> 5609

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 gcctcccag tagctgggat tacaggcatt gcgccaccac ccgntaaat ttggatttta 480
 atanaaacg ggggttttnc tgttgggcaa ggctgggnntt tgaacttccn aacttanggg 540
 ggtc 544

<210> 5610

<211> 583

<212> DNA

<213> Homo sapiens

<400> 5610

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 cctggagatg ctctggcttg tgggtgtaga attggaactt aatgaaacaa tncaggaaga 480
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<210> 5611

<211> 576

<212> DNA

<213> Homo sapiens

<400> 5611

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<210> 5612

<211> 573

<212> DNA

<213> Homo sapiens

<400> 5612

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nggcaancta gtacattttc agnccacttt aaa 573
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<210> 5613

<211> 560

<212> DNA

<213> Homo sapiens

<400> 5613

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caatctcagg gaagctgtag gatcttatgc agaaaatcaa agaataacag ctgtccgaag 300
agtttatcaa cgaggttgtg ttaatccgat gatcaacatt gaacagctct ggagagacaa 360
ggccgtcaaa aggcccaacg aggattcaga tgaagatgaa gaaaagggga gcccggtgtc 420
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ccccctgttc atgacattta cagagcacgg nancagaagc cggnttcngt agggttttta 480
acgcctntgc agaaaactcc tgtccaggat tcctttggcc tcaagnggna ttgttaaaag 540
agacacgctt tggttncang 560

<210> 5614

<211> 584

<212> DNA

<213> Homo sapiens

<400> 5614

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ataggagact aagaaccagt aaaatgaagg agagaaagac ggtttgacaa aacagtgcct 180
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gttgtgctta tagtcgtcta atgagccaca cagggatttt aaaaattaag atttcaaact 300
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taataactta aatgtgtaca gtgcttttaa acttttaaac cccttcacat ctatgaacta 480
cgtgatcctc acaacaaccc tgtgaggtag gcagggcagg agttattatt gatccccatt 540
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<210> 5615

<211> 586

<212> DNA

<213> Homo sapiens

<400> 5615

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gataaattca ttcattctct ttgtaaccct ttctgtttgc tgcttttctt ctcccatctg 180
 tttatcatgt aatagctgct gntctttttc ttttctccaa aaagcttcct gtttttgccg 240
 gattcgacgc cgtaattctt catcatcagt gtcagatgac tcagatcctc tgtcactcct 300
 ctcatcttca ctgtctcctg atccataacc acccagtcca cctgtgtgca taaagctcag 360
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 ttcatttctt ttttcaatgg ccttttccca gaagaatacn cctaattcgg ggtggggaga 480
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 aatcctttct ggactattca tattttctca ctgnaaagga acataa 586

<210> 5616

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5616

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 gcaatagcta tttttcctaa tgctctcccg cgacctccgc cctcctctga aaggccccag 180
 tgtgtgttgt tcccctctct gtgtccatgt gttctcatta ttcggctccc acttataagt 240
 gagaacatgt ggtgttggtt ttctgttcct gcattagttt gctgaggata atggcttctg 300
 gcttcatcca tgttcttgca aaggacatga tctcattcct ttttatggct gcatagtagt 360
 ctgtggtgta tacgtaccac attttcttta cccagtctat cattgatggg catttggtt 420
 gattccatgt ctttgctatt gntaataagt gctgcaatga acataagtgt gcatgaacct 480
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<210> 5617

<211> 585

<212> DNA

<213> Homo sapiens

<400> 5617

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catgtaccag gatggaatag gtcttgagc agagtcaacc tttctttat cttgttgtt 60
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agagagggat ttagctcttt caagcaaagc tttagtgtct ggtgtgattg tcttatccaa 180
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aggttccaga tctcgtacag acctttttcg aaggctatct ctcttaatta tgctgtttgg 420
gaaactcaca tcaaactctgc cagcatcctg tttcatctga gagtcccaac gatttagttc 480
atcttcagaa ttcaagacng atngttttat tttggccata tctgccatct ggncctctct 540
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<210> 5618

<211> 584

<212> DNA

<213> Homo sapiens

<400> 5618

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caggcgcccc ccaccatgcc ttgctaattt tttgtatttt tagtagagac aggatttcac 180
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aagtgctggg attacaggcg tgagccaccg cgcctggcct gtttagagtt ttatacccc 300
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tggtgcacat gctcantagg ggcaagtct cactgggtcca gcgctccana ggaagtcata 480
taccagttaa atttcacat ctggcccttt actggacatg cttnaaacce tattggggga 540

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584

<210> 5619

<211> 580

<212> DNA

<213> Homo sapiens

<400> 5619

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acacatgaac atccaacagt ttgataatac aagttttatg gtacaataca atgtttctga 180
ataatataca ttaacaatga aagtttcgtg caaagagtaa aacatgttcc ctttttgtgc 240
cacaaaatca attctccttg agagactgta cttgcactaa ctgctgtgtt gggtcattgt 300
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atactgtaaa gcagactgga caccttgaag ggcctcccat cccttcnaac tggctctatc 480
anggggcact ggagtttggc aggagaagtc aaaggtctgg ctgcaaantt tgcattnatg 540
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<210> 5620

<211> 559

<212> DNA

<213> Homo sapiens

<400> 5620

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tgacaatttc agagtatcac ttggattttt aaagctttat ttcaatcagt atacactgat 180
acatatcctt tatttctgct ttgcttagag aataaatgcc taaggtaaaa gattattatc 240

aaatgttgaa tttttcccat gcccttggtg atagttatta aatcatcaat aagtttatgg 300
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 gtcttatttt tctactgctg ataaaactca gaaaaaaatt atctttattg gaagactaaa 480
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<210> 5621

<211> 571

<212> DNA

<213> Homo sapiens

<400> 5621

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 ccagctgttt ttgtattttt agtagatgtg gggtttcacc atgttgccca ggctgggtctt 180
 gaactcctga cctcaagtga tccacctgcc ttggcctctc aaagggtctg gattacaggc 240
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 gacagcttcc ttanattttg taccctaatt gccttctctt gctgcagcct agttttggct 360
 ccagcaattc agtaaaagta gttctactga ggtccagtat catacaatcc agatagctcc 420
 ttgatggctt tgcttgggtc aaggaaactt tgggctctat ggtaaaatag nggaattcct 480
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<210> 5622

<211> 581

<212> DNA

<213> Homo sapiens

<400> 5622

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 gccatgggag gatttggaga agctagtga gacggttgct tgcctggggg aattgctgcc 180
 tcaggagtct ctgaggatcat aaactctgtt tcagatccag aagaagcctg atcggtagta 240
 accaagcaag catttgagct acaagtaact ggagaagaag tagcctgtaa cggctcttga 300
 agaaaatcac tttgactgga cagattttgt tcttttagatg ctacggggct acctggagta 360
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<210> 5623

<211> 525

<212> DNA

<213> Homo sapiens

<400> 5623

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 aacttcaggt ttcacaacat gtagcaagta tgatttgttg cacaccaaca gccattcatt 180
 cctcacgttt tccttgctaa aagagccctg gtcaggcacg gtggctatgc ctgtaatccc 240
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 gccaacatgg tgaaaccccg tctctactaa aaacacaaaa attagccaga catggtggcg 360
 ggcacctgta atccccacta ctgaggaggc cgaggcagga gaattgcttg aacctaggag 420
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<210> 5624

<211> 593

<212> DNA

<213> Homo sapiens

<400> 5624

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aaaagcttca tttgtttgcct gtaaagagtc ttcttaaggt cacttttact tctagactgc  240
ccccttgttt ccagtgaag agttttgctt ggtaatggct tgtggttcca cagtgttttg  300
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aaaaaaaaact caagtcccaa ctgaatcttt actttggatc atcactttcc agcggcattc  480
aaaaggctgc tgtgccggtc agaccacaga agctcccttg anggccctg ngggcttatg  540
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<210> 5625

<211> 591

<212> DNA

<213> Homo sapiens

<400> 5625

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acaggagggg attctcccct cagtcactgt agcctcactg tatgatcaag ggaggtgggg  180
attatttagt caaaaaggaa gaaggtagga agaacaggag gtggaaggct ggggaggtgg  240
ggacaaacag aaaataaaag gtcattgttg cctgtttgaa tccagaaaaa aatgcctggc  300
cctatggagg ggaaggaagc ccctcagagg ggaggcagtg ggctggaggg aggcagccct  360
gggatgaccc catccccagc accacgggat ctgcggggca gaagaagggg cccaggcang  420
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cgctggttgg aagaacccgc aggggccttc cggagcctnt gggtcacact ggctactggg 480
gaccttgtgc ccacccttgt gtgttncccg agtaactncc gtagtcgtaa gttcccgtaa 540
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<210> 5626

<211> 592

<212> DNA

<213> Homo sapiens

<400> 5626

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ctacaagttt aaggcaaaca tactaatgca ttgtcttttc ttcagaaatc atacttataa 180
agattacata aaatctgtcc caaaacgtct aagaaatatt cagtaattaa aaataagtct 240
gattaagatg ctttaccagg atacatgaat gaactaagggt ggtatatgct tttaaaaaca 300
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gtatgacnag tgccccgatg atggatcact ggtattgggg aacacagtgc ggattcacgg 540
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<210> 5627

<211> 575

<212> DNA

<213> Homo sapiens

<400> 5627

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aggaggtaca caataattga ctgtctcatc ttcaatcagt gggtttgatc agatttctac 120

attataaaat ttccattaa cctatcatct aatggttttc acatccaaga aatactgctg 180
tctagattca ctacttcatt aagactttca aactttttatt ttttaaaagt ctatcatttc 240
ttttgcacct attagctgga aattttccta agaattttcc ctcagttact tggctgccta 300
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ccaatattct tttaataggc ttttaatcnt ttggnagatg acaccattat agcccaaacc 480
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<210> 5628

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5628

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acaagtcctg gggacattcc ctgnatgaag accatatgtc tgacatggca cttggccacc 540
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<210> 5629

<211> 586

<212> DNA

<213> Homo sapiens

<400> 5629

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tgtacatcat ctccaatcca tattcatcag gagcgccctg gggcttgtca tcctgctggc 180
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agtggggatc tgcaaaaggg actaaagggg gtagaataat acaaaaaggc caagccataa 480
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<210> 5630

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5630

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572

<210> 5631

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5631

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 caaactgcaa attactctgt ctcttttctt aatcaatata gcaacagtcc tcagtggtag 180
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 atgagcgctg gatacttcag tccatgttcc tggctagcag ctgnaattcg attaatccag 420
 agctgaaatn agaaaacatg aagatnctta aaaatgactt ctgggatggt atggnccagc 480
 aaaagcctnt aatggactaa agaataatctt tctaaaagta aattgccaaa atcagngggc 540
 tntgatggng ccataatttg ggctaaacga aa 572

<210> 5632

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5632

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 ggccactctg ggcagaaagc aaaggcgcct catggcacct actcanaggc actgaggcca 180
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 tttgggtccc acctggggaa ccttaatgac aggaagcnaa acaggncaga tttcttcacg 480
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<210> 5633

<211> 574

<212> DNA

<213> Homo sapiens

<400> 5633

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 tcctagtaat tggtcctggg gcctaaaagc ccnccatnt aagaangcaa aggaantggt 540
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<210> 5634

<211> 582

<212> DNA

<213> Homo sapiens

<400> 5634

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 tgagcatggt ggcagggagg agagcacctc acgtacaaac tgcacgagct tcgggcgcat 180
 gcatggctgg ccaagactga gggtcacaca gggcagacaa gggagacgag tcacacgtgg 240
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<210> 5635

<211> 583

<212> DNA

<213> Homo sapiens

<400> 5635

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 gccatataat tgagaatcat actatagttt ttatacagca gtcaagtcac taaaaatggt 180
 ttatcaggtt aggtttacca ggaatcctag atgacacaac tgggcatgag aatacgatga 240
 accaccgtcc tctccctgat ggcagaggtc attactggcc tttcacattc aagccatctc 300
 ccagctgtga ctctgggctt gctgcactgt agtgtaggta gtgctttaag gagatgggag 360
 tagttagtta atggttcttt actgaattgg ttctaagata agtgggctaa aattagaaga 420
 aaaatctaga aaaaattagg agacatgttt gtggcagaga tcattaactt gagggatccc 480
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<210> 5636

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5636

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caaaactggg aatctaaact attatgtgac tgaaaattga tttctaggtc tntgcacagt  180
ccattaactt tatactttta gtttccaaat ctatatatgc cacaacccc aaacataagc  240
atccacatat ttgttctgca tttcctctgt ccatactgga ttagcagaag cattaagtgt  300
tagtgtggca agatggaagg accctgataa catgcctctg taaccatatg taagagtcc   360
attttaaaat tacagacaac acagaaatac ttccgtatga ccctctctga aatgtgaact  420
tttcaggcat gtgaacaata aaaacaaaat gcagaaaata tttcatgaag ctgcactgag  480
caatgccctt aagactggct ttcttgggtt ccctgtccaa tctttagcat cacttttggc  540
agacattaag ctaccagtta ata                                     563
    
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<210> 5637

<211> 575

<212> DNA

<213> Homo sapiens

<400> 5637

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taggcacaca tcaccatttc tggctaattt tttatttttc atggagacaa ggtcttgcta  180
tgttgctcag gctggttttg aacttctggc ctcaagtgat cctccacct aggcctccaa  240
aagtgctggg attacaagag taaaccactg agcctggccc tgaaatgctt tttttttttt  300
ttttttaatg aaaatacaag gcatggagat gtggaaagac accttgcttt attactgnta  360
    
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ttattagttc tatagtataa ttcatatatc acaaaaaatca ccatttttaa gcatatattt 420
cagtgtcttt taccatattc caaaagttct gcaaccatca ccactaccta attccagaat 480
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tttttacagn cttttgcaac cnctaattta ctttt 575

<210> 5638

<211> 585

<212> DNA

<213> Homo sapiens

<400> 5638

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tgccttaagt taaccaagca ttttgataac acattcaaat ttaatatata aaaatagatg 180
tatcctggaa gatataatga agaacatgcc atgtgtataa attcagaata cgctttttac 240
acaagaact acaaaaagtt acaagacag ctttcaggaa ccacacttag gaaaagtgag 300
ccgagcagcc ttcacgcaaa gcctccttca aagaagtctc acaagactc cagaaccagc 360
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agattaactc ggggtggtgct gaaaaatctc agccctcagc attcctgggn aaanccgcct 480
tccaagagtt ccggctttta ggganccttg gtggcagtan ccggcccgnn ttattcagcc 540
caacccaaag tgggaaagaa accactgggt aaccgcctct tgggg 585

<210> 5639

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5639

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ctgtggccca ggctggagtg cagtggtgcc atctcggtc actgcaagct ccgcctcctg 120
 ggttcaagtg attctcctgc ctcagcctcc tgagtagctg ggattacagg tgcgtgccac 180
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 tcttaaaaag tgctttaagg gtgcatcctg ataggtggca taaggagca tgccttttgg 480
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<210> 5640

<211> 577

<212> DNA

<213> Homo sapiens

<400> 5640

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 aaagtgcatt ttttccagtt ttttagggaa aaggagatac ttcaccagga ggataaaaag 180
 gaacaagagg ggaaggggaa ataaaaattc cagaaagatg aaaaattggt gatgtaagat 240
 ggaggcacat ttttgccaaa attctctaga agacagaatt attatggctt ccagtaact 300
 gactccgctt gccggcagcg ggaggatctg gccgggttct gtcttctcct gcaatgacac 360
 actgtcctgc actgaaaact tgagccacag cccatgtgcc tgggcagtat tggttaagtgc 420
 agatattcag caaggaaaga aaagaaaact cctaaaagaa acagcagttg ccttaaacca 480
 gcggagatta atagaaccta tagaattggg gtggggagac agcntcagga aggtaccctg 540
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<210> 5641

<211> 589

<212> DNA

<213> Homo sapiens

<400> 5641

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ggtgctgaga gtggcaacac aggccacccc aaaccaactt cactccctcc cctgtcctca 120
gccagtacag aagccaaatg tagccccagc cctagactcc agcccaggca gagtccaagg 180
gaggggtgtc agggtcagaa gtcacaggga gcccagtgac tatcaagggtg gctgagagca 240
aggctagggt agggatgggg cagagaaagg gcaggggggtg cagccccagg tggcccaaag 300
caacacagag gagcaagggc tggcattcaa gtcagcaggt ccctggggag aacagatggt 360
gcctggagtc ccacatggtg gtacagggtg gggagcttct tgggtggcagg cagcacccca 420
ggaggaatgg gactncttgc cgangctgac ccaacttcaa ggctgccaag ttctgatggg 480
aatgtcctct tcangacatt tccagccccg gacgaacaaa agccttgagg aattgggatt 540
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<210> 5642

<211> 580

<212> DNA

<213> Homo sapiens

<400> 5642

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aattctgatg ttcataattta atatcattta acatttatac atattagtca ctggagcttt 60
acttgagta catccacacg aaaaaccaat tatttattaa attttccttt cttagcaata 120
gcctctaaat ttgcaggccc accccaaact gttcctaaaa gatctctttc gttctgtaat 180
gcttcctcca aatatagctc tctgcctgaa caaacagatt tttcaaagc tctaattact 240
tccggtggcc cttggatgaa ttgctttagc cattcttggt cctcttctag agatttagtt 300
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gtttaagggc cccactcaac actttgagag cttgtctact tccgattatt tcaactagcc 420
cgggtgggcc accccagctt ggtattatgc ccatctcttt gtggacgaat ctgatcttac 480

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tctctgggag cattaacctg gaatcacatg ctgnagtaaa atctgntctt canccaatgg 540
ccaancttga accagngcac acttattaaa ggaagctgtt 580

<210> 5643

<211> 576

<212> DNA

<213> Homo sapiens

<400> 5643

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ttacaggccc tgccaccacc cccccgctaa tttttgtcta tttttttttt ttagtagaga 180
cggggtttca ccatgttggc tagtctggtc ttgaactcct gactgacctc agacgaacca 240
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tccaatagta taatagaaag actattagta agaatgccag aaggncagtc tcatgcacct 480
ggtgaaataa accaaccaac caacctgaan tctaaagctt gngtggcaag taccactgtg 540
gggaagtgtga gaattaacnc tcttttccta agggtc 576

<210> 5644

<211> 595

<212> DNA

<213> Homo sapiens

<400> 5644

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caggtttaat ctttcaaat catcattta acagcaaaag accaagaaat aaaatttgag 120
tcaattatit ttcaaaatat tctcaatgca cattatcctt aattccctta ttatagttaa 180

acatacaaat acagaaaaat accccattta acaaatacta gtgttaaag gttatttggc 240
 ttaaaatctg agttaagaaa atccttttta gcaacctaca tacagataag tagcaaactt 300
 tattatatta aacaaattca ttctgctaaa acatgtaaag aatttcatcc atcatgtatt 360
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 caaagagttg tcttagatat aacctcatcc tcttcccaa cacacttcat tccaaagtct 480
 ggtcaacaga tggcaaccgc ggtagcagtc actttancat ctggatgccn gtgggttccg 540
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<210> 5645

<211> 582

<212> DNA

<213> Homo sapiens

<400> 5645

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 atacgacat tctttttcac tctgaattgt tttcaaattt ttcacgtatg tacacctcgt 180
 acccccaaaa accatatcgg ccttaatagt atgaaatgca tctatttcc tttgtatttc 240
 actaagcaaa ttatttttaa aatactttat ttcatttgat caggacgatc tgtgtaagga 300
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 gaaggtctgc ctttccattt ctacacagtg caaacacat gggcttgcac tacacatact 480
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<210> 5646

<211> 579

<212> DNA

<213> Homo sapiens

<400> 5646

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 aggcgcacac caccatgcct ggctaatttt tgtatttttt gtagagacgg gatgtcatca 180
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 ataccacga attttccat caaggcagta ataatacagt ttttagaagt gtaaacaatca 420
 acaccggact ctccaggttaa tgtctangta aaggaccccg canggtgcct tcattcctta 480
 ttacactgng ggcattctct tttcttctt actcataatg gaatatgaga attaaacccc 540
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<210> 5647

<211> 588

<212> DNA

<213> Homo sapiens

<400> 5647

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 gaatcaaaaat gggagttaat acaagtgtat aaatgacaat taatgcattg gacagtttga 180
 ttgttcatcc aaattttgat atatctcact aacagcatgc aaggaggctt aacagaactc 240
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 catatgaggc ctcggaagg gggtaatgcc tttatcttcc attttaagga aaagaatgac 480
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<210> 5648

<211> 517

<212> DNA

<213> Homo sapiens

<400> 5648

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gggaccatag gcgtgccccca ccacacctgg ctaatttttg tttttttgt agagacaggg  180
tttcaccatg ttgcccagac cggctctgaa ctcttagact caagcaatcc tcctggctca  240
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accagttgat aaacagttgt gccttacact acctctccac ctccaaatgc caacccttt  360
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catacaaaag gtagtcttga ggaccatgct tcanaactat ggctgttgnc accctgcttg  480
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<210> 5649

<211> 576

<212> DNA

<213> Homo sapiens

<400> 5649

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ttagaaaatt actacttggt catgataaaa attttaagta atgcaaaaga gaacaaggta  180
aaaacaaaag ccaccatgct tttggcccct tccaatcctc agcagtgtcc actggttaaca  240
tttcttgaat atgcagagat tgtctttttc aaagagatgc tattaataaa ttaaggcctc  300
tggggttgaa agagtaaagg agacttctga cccttcttta gtgcactccg tggaggtcac  360

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tatcagatct catctggcct gactggctat cagcaacact aggaataagt gttaggaaaa 420
 aaacacctgg ctccaatgtc aatgaagttt caattagaaa aataggaaca ggangtatga 480
 aataggatgg ncctggactt accaaataag ccctggatga agtcnaaatc taagaccctt 540
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<210> 5650

<211> 573

<212> DNA

<213> Homo sapiens

<400> 5650

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 actataggtg cccaccacca tgcctggcta attttttgtt gtatttttag tagagacggg 180
 gtttcactgt gttagccagg atggtcttga tctcctgacc ttgtgatccg ccacctcggc 240
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 tatagggtag ttttaacaac ctgtcttcca agggacaacg tcagttagaa aatgggaagg 480
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 ccccttaagg gcccacaacc aggtttttcn ttt 573

<210> 5651

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<212> DNA

<213> Homo sapiens

<400> 5651

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agcctccaac tccctgggtc aagcaattct cctgcctcag cctcccgagt agctgggatt 120
 acaggcacac gccaccacgc ccagctaatt tttgtatctt tagcagagac ggggtttcac 180
 aatgttggtc aggatgggtc cgatctcctg accccgtgat ctgcccgcct cggcctctca 240
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 aaacaagaag tccaaaattc aaatcacaca ccaacgcggg tctttctgca ttcaaggcaa 480
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<210> 5652

<211> 570

<212> DNA

<213> Homo sapiens

<400> 5652

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 aaagtatttc tcttcttgaa aatattttta aatacaattg cagtaaaaac aattgcatgt 180
 agacattatt ctccatctgt tttttttgta ggagactgtg gaagacagga gggagttggg 240
 cgtgcacaca gaattttacc taacagcttt gttagggagg tggccccaaa tactttatat 300
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 ctctttttac ttgacaact gagacaaaat gacaaattgt cagtgttcag agatccagac 420
 caacttctca aaaaaatatg ttaccacctg atatcatcat tattttagcc caactgngcc 480
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<210> 5653

<211> 569

<212> DNA

<213> Homo sapiens

<400> 5653

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ctgtctctng ctttctcttt tctctttttt taatatgcaa acaaaaaaat gcaaaaatga  180
aaatgacaac acaacatcag aaagacattt ttttaacttc attcgctaca acagtcacga  240
actggttgaa ctctacctgc catccaactt taagaaacga agaccggca ctgtgaaaaa  300
gaaacaaaac ccaaacaaaa caatgataca aagcaactgc gaattaatgt aaaaatggag  360
tgcaaatgcg actacagaat gcaaaaaaaaa acatcagcgt tgcagattcc agcaacactt  420
atcaaaataa tttctgaant gtttcatatg aaacatagac aaagcantaa aaagaggata  480
tatgttaatc atcttaagcn taccaatgtg agttaaganc ttaaaaatta aaaaaaaaaa  540
agtncttgga atgaataagg gctnccttt                                     569

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<210> 5654

<211> 565

<212> DNA

<213> Homo sapiens

<400> 5654

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gtgcacttag cagcaggggc cacagttctc ccataaatc tcgagcattt tttccattca  180
aaaatccagt caggttgatt tgcatcattt tggagtctgg attctgcaa aagacacgac  240
aggaagaaaa acaggttact tcaaaaccaa ccaaccaaca aatcaaccaa cctaaaactc  300
atttaaatta gtatttttta agtctacat aggggcttag acatatatat agtccttact  360
attttcaaaa tagtcttccc tagtagcttc tcagcaatat aatctctaac agattaccaa  420
attctctctc actctaccaa aagcatcaga gcagcctggt aatcctttgg ggattcgtaa  480

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<210> 5655

<211> 580

<212> DNA

<213> Homo sapiens

<400> 5655

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gttacaggcg cctgacacca cgcctggta atttttgtat ttttagtaga gatgggattt 180
caccatctta gccaggctgg tcttgaactc ctgacctcgt gatcccccta ccttggcctc 240
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gattgtatgg agcttcatgc ttccagtgtg gaccaagttc tcaggccaga accaggccat 480
cctcttgnga tcaagtcttg gcaacaagac attctgtgtt tactggangg aatgctctgg 540
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<210> 5656

<211> 571

<212> DNA

<213> Homo sapiens

<400> 5656

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aatccaaat caaacataa ctccctggccc tgagatcccc agttaatcct ctaagaccac 120
aatctccaca ttgtgaactt gatgctggtg ttcttccatc tcagccacaa ctttctcctc 180